

Curriculum for Industrial Stitching Machine Operator

(Certificate Level - 6 months)



Contents

Overall objective of the course.....	3	Assessment.....	60
Competencies gained after completion of the course.....	3	Module 1: Introduction to Garments & Its Essentials	60
Knowledge proficiency details.....	4	Module 2: Single needle lock stitch sewing Machine.....	62
Job opportunities available immediately and in the future.....	4	Module 3: Over lock Machine.....	66
Overview about the program.....	5	Module 4: Button Hole Machine	70
Industrial Stitching Machine Operator Curriculum Contents...17		Module 5: Button Stitch/Button Take Machine.....	73
Module 1: Introduction to Garments & Its Essentials	17	Module 6: Flat Lock Machine.....	76
Module 2: Single needle lock stitch sewing Machine.....	19	Module 7: Feed of Arm.....	79
Module 3: Over lock Machine.....	23	Module 8: Twin Needle Lock Stitch Machine	82
Module 4: Button Hole Machine	27	Module 9: Bar Tack Machine.....	85
Module 5: Button Stitch/Button Take Machine.....	30	Module 10: Loop Making Machine.....	88
Module 6: Flat Lock Machine.....	34	Module 11: Elastic Attaching Machine.....	91
Module 7: Feed of Arm.....	37	Module 12: Maintenance Assurance.....	94
Module 8: Twin Needle Lock Stitch Machine	40	Module 13: Garments Defects & Its Corrections.....	95
Module 9: Bar Tack Machine.....	43	Module 14: Garments Inspection & Grading.....	97
Module 10: Loop Making Machine.....	46	Module 15: Pressing (Ironing) Garments.....	98
Module 11: Elastic Attaching Machine.....	49	Module 16: Flow Making for Garment.....	99
Module 12: Maintenance Assurance.....	52	Module 17: Health & safety, and basic first aid.....	100
Module 13: Garments Defects & Its Corrections.....	54	List of Machinery / Equipment / Tools.....	101
Module 14: Garments Inspection & Grading.....	56	List of Consumable Materials.....	103
Module 15: Pressing (Ironing) Garments.....	57	Reference Books.....	104
Module 16: Flow Making for Garment.....	58	Qualifications of Teachers / Instructors.....	105
Module 17: Health & safety, and basic first aid.....	59		

Overall objective of the course

The objectives of this course are to:

- Acquire the operating skill and knowledge of special garment machines, their function, lubrication minor faults and remedies.
- Enhance productivity with quality.
- Produce skilled manpower for Garments Industry in the field of Industrial Stitching Machine operator
- Facilitate the Deaf & Dumb and invalid persons handicapped from one leg can to get training of this course, which will help them to get respectful job in the society, and definitely will make them useful member of the society instead of a Bagger.

Competencies gained after completion of the course

At the end of the course, the trainee must be able to attain the following competencies about various industrial-stitching machines:

- Identify the name and functions of various machines and their uses.
- Identify accessories of various machines and describe their functions.
- Machine Cleaning (Before & after work).
- Wind a bobbin, thread a machine, thread color change, without removing complete thread (by knotting) adjust tension, choose and change a needle. Differentiating needs of Lock Stitch, Over Lock, and Flat Lock etc.
- Operate M/C, handle garment and control speed of each machine properly.
- Paper / Card sewing Exercises (simple to complex shapes).
- Sewing on Rags.
- Making special shapes on fabric pieces e.g. collar, placket; side-vents etc.
- Complete garment making.
- Produce maximum work in minimum time with required quality.
- (Using proper movements of Arms, Legs, and Hands, proper posture etc.).
- Rectify the causes of thread breaking, bobbin thread breaking and their remedies.
- Rectify the causes of skip stitches.
- Perform the use of tools and machines
- Develop draft pattern of sleeves, collars, shirts, skirts and trousers and other industrial garments
- Develop creative design of dresses
- Diagnose the faults in the industrial machine
- Describe the types and composition of different material used in manufacturing the garments

- Handle trouble shooting in machines' operations and maintenance used by operator
- Observe the safety precautions and basic first aid in the workplace

Knowledge Proficiency Details

On successful completion of course, the trainees must have acquired the following knowledge & skills:

- Use embroidery hand tools and equipments.
- Types and functions of different Industrial Sewing Machines.
- Parts of Sewing Machines/ their functions.
- Oiling and cleaning all type of sewing machines (before & after work).
- Installation of different accessories.
- Knowing causes of thread breakages, skip, jump stitches & Needle breakages.
- Care before Operation.
- Care during Operation.
- Know fashion designing and analyze various designs
- Demonstrate the selection of material such as fabric, thread and other accessories according to quality, design and fashion

Job Opportunities available immediately and in future

Passed outs in Industrial Stitching Machine operator trade can find employment opportunities in the following sector:

- Garment Factories (Knitwear + Woven garments).
- Self-Employment (subject to pass the short course of cutting & patron making)
- Cottage Industry
- Buying house
- Garments broker job

Overview about the program – Curriculum for Industrial Stitching Machine Operator

Module Title & Aim	Learning units	Theory Days/hours	Workplace Days/hours	Total Hours
<p>Module 1: Introduction to Garments & Its Essentials</p> <p>Aim: This module develops competency to get acquaintance & understand the learning units from 1 to 7</p>	<p>LU-1 Introduction to Threads and yarns</p> <p>LU-2 Fabric Identification</p> <p>LU-3 Understanding of chain system and piece system</p> <p>LU-4 Types of garment materials and accessories</p> <p>LU-5 Types of garments</p> <p>LU-6 Types of stitching Machines</p> <p>LU-7 Types of stitches their faults & their remedies</p>	15	20	35
<p>Module 2: Single needle lock stitch sewing Machine</p> <p>Aim: This module develops competency to operate to stitch a garment on this machine</p>	<p>LU-1 Introduction to Machine Parts, Operator Sitting Posture.</p> <p>LU-2 Machine Cleaning, oiling and Basic Maintenance (precautions)</p> <p>LU-3 Machine Threading</p> <p>LU-4 Needle Selection according to the Fabric</p> <p>LU-5 Adjustment of needle and bobbin case</p> <p>LU-6 Thread Breakages, their causes and remedies</p>	30	150	180

	<p>LU-7 Needle Breakages, their causes and remedies</p> <p>LU-8 Adjustment of upper and lower thread tension</p> <p>LU-9 Use of different sizes of pressure foot/boots</p> <p>LU-10 Different types of attachments (Zippers, gathers, hemming and edge seams)</p> <p>LU-11 Machine Control exercise</p> <p>LU-12 Paper sew exercises without Thread: straight, curved, rectangle, square & circle etc.</p> <p>LU-13 Repeat the same exercises on different types of fabrics. (Woven& Knitted)</p> <p>LU-14 Practice to attach pocket on fabric (Ten Exercises).</p> <p>LU-15 Practice to make placket on fabric (Ten Exercises).</p> <p>LU-16 Practice to attach cuff and sleeve vent on fabric exercises</p> <p>LU-17 Practice to attach collar on a fabric exercises</p>			
<p>Module 3: Over lock Machine</p> <p>Aim: This module develops competency to operate to complete a task on garment on this machine</p>	<p>LU-1 Introduction to over lock machine.</p> <p>LU-2 Operator sitting posture.</p> <p>LU-3 Important parts of machine and their functions</p> <p>LU-4 Oiling and cleaning machine</p> <p>LU-5 Machine Threading</p> <p>LU-6 Precautions.</p>	20	85	105

	<p>LU-7 Care in operations.</p> <p>LU-8 Needle & thread knowledge</p> <p>LU-9 Needle adjustment</p> <p>LU-10 Stitch length adjustment</p> <p>LU-11 Tension & Cutter adjustment</p> <p>LU-12 Machine control exercises.</p> <p>LU-13 Fabric shape exercises (Straight, round and curved)</p> <p>LU-14 Needle & thread breakages fault.</p> <p>LU-15 Over lock stitch variations</p> <p>LU-16 Panel Exercises (Crotch, Arm hole, front and back panel edges parallel).</p>			
<p>Module 4: Button Hole Machine</p> <p>Aim: This module develops competency be able to complete a task on garment button hole machine</p>	<p>LU-1 Introduction Button Hole Machine</p> <p>LU-2 Operator sitting posture.</p> <p>LU-3 Important parts of machine and their functions</p> <p>LU-4 Oiling and cleaning machine</p> <p>LU-5 Machine Threading</p> <p>LU-6 Precautions.</p> <p>LU-7 Care in operations.</p> <p>LU-8 Needle & thread knowledge</p> <p>LU-9 Needle & cutter adjustment</p>	07	30	37

	<p>LU-10 Button hole size, proper placement of fabric under presser foot</p> <p>LU-11 Practice of different sizes of button hole</p> <p>LU-12 Needle & thread breakage faults</p>			
<p>Module 5: Button Stitch/Button Take Machine</p> <p>Aim: This module develops competency to operate complete a task on garment on this machine</p>	<p>LU-1 Introduction of Button stitch machine.</p> <p>LU-2 Operator sitting posture.</p> <p>LU-3 Important parts of machine and there functions</p> <p>LU-4 Oiling, cleaning and Basic maintenance</p> <p>LU-5 Machine Threading</p> <p>LU-6 Precautions.</p> <p>LU-7 Care in operations.</p> <p>LU-8 Needle & thread knowledge</p> <p>LU-9 Needle & thread breakages fault.</p> <p>LU-10 Needle adjustment</p> <p>LU-11 Stitch length adjustment</p> <p>LU-12 Thread tension adjustment</p> <p>LU-13 Pattern formation</p> <p>LU-14 Button marking with the help of pattern</p> <p>LU-15 Adjustment of button into machine</p> <p>LU-16 Placement of fabric under presser foot</p>	07	30	37

	LU-17 Attach different sizes of buttons on fabric			
<p>Module 6: Flat Lock Machine</p> <p>Aim: This module develops competency to operate to complete a task on garment on this machine</p>	<p>LU-1 Introduction of machine.</p> <p>LU-2 Operator sitting posture.</p> <p>LU-3 Important parts of machine and there functions</p> <p>LU-4 Oiling and cleaning machine</p> <p>LU-5 Machine threading</p> <p>LU-6 Precautions.</p> <p>LU-7 Care in operations.</p> <p>LU-8 Needle & thread knowledge</p> <p>LU-9 Needle adjustment</p> <p>LU-10 Needle & thread breakages fault.</p> <p>LU-11 Stitch length adjustment</p> <p>LU-12 Adjustment of thread tension</p> <p>LU-13 Machine control exercises.</p> <p>LU-14 Panel exercises (top stitch, sleeve hem of young man)</p>	07	50	57

<p>Module 7: Feed of Arm</p> <p>Aim: This module develops competency to operate to complete a task on garment on this machine</p>	<p>LU-1 Introduction of Feed of Arm machine.</p> <p>LU-2 Operator sitting posture.</p> <p>LU-3 Important parts of machine and there functions</p> <p>LU-4 Oiling and cleaning machine</p> <p>LU-5 Machine threading</p> <p>LU-6 Precautions.</p> <p>LU-7 Care in operations.</p> <p>LU-8 Needle & thread knowledge</p> <p>LU-9 Needle & thread breakages fault.</p> <p>LU-10 Needle adjustment</p> <p>LU-11 Folder attachment knowledge</p> <p>LU-12 Stitch length adjustment</p> <p>LU-13 Tension adjustment</p> <p>LU-14 Machine control exercises.</p> <p>LU-15 Panel Exercises (back yoke panel and out seam, in seam.</p>	<p>07</p>	<p>30</p>	<p>37</p>
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<p>Module 8: Twin Needle Lock Stitch Machine</p> <p>Aim: This module develops competency to complete a task on garment on this machine</p>	<p>LU-1 Introduction of Twin Needle Lock Stitch machine.</p> <p>LU-2 Operator sitting posture.</p> <p>LU-3 Important parts of machine and there functions</p> <p>LU-4 Oiling and cleaning machine</p> <p>LU-5 Machine threading</p> <p>LU-6 Precautions.</p> <p>LU-7 Care in operations.</p> <p>LU-8 Needle & thread knowledge</p> <p>LU-9 Needle & thread breakages fault.</p> <p>LU-10 Needle adjustment</p> <p>LU-11 Stitch length adjustment</p> <p>LU-12 Thread Tension adjustment</p> <p>LU-13 Machine control exercises.</p> <p>LU-14 Panel Exercises (top stitch & sleeve hem)</p>	<p>07</p>	<p>40</p>	<p>47</p>
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<p>Module 9: Bar Tack Machine</p> <p>Aim: This module develops competency to complete a task on garment on this machine</p>	<p>LU-1 Introduction of Bar Tack machine.</p> <p>LU-2 Operator sitting posture.</p> <p>LU-3 Important parts of machine and there functions</p> <p>LU-4 Oiling and cleaning machine</p> <p>LU-5 Machine threading</p> <p>LU-6 Precautions.</p> <p>LU-7 Care in operations</p> <p>LU-8 Needle & thread knowledge</p> <p>LU-9 Needle & thread breakages fault</p> <p>LU-10 Needle adjustment</p> <p>LU-11 Stitch length adjustment</p> <p>LU-12 Thread Tension adjustment</p> <p>LU-13 Machine control exercises.</p>	<p>07</p>	<p>30</p>	<p>37</p>
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<p>Module 10: Loop Making Machine</p> <p>Aim: This module develops competency to complete a task on garment on this machine</p>	<p>LU-1 Introduction of Loop Making machine.</p> <p>LU-2 Operator sitting posture.</p> <p>LU-3 Important parts of machine and there functions</p> <p>LU-4 Oiling and cleaning machine</p> <p>LU-5 Machine threading</p> <p>LU-6 Precautions.</p> <p>LU-7 in operations.</p> <p>LU-8 Needle & thread knowledge</p> <p>LU-9 Needle & thread breakages faults</p> <p>LU-10 Needle adjustment</p> <p>LU-11 Folder attachment</p> <p>LU-12 Stitch length adjustment</p> <p>LU-13 Adjustment of thread tension</p> <p>LU-14 Machine control exercise</p>	<p>07</p>	<p>30</p>	<p>37</p>
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<p>Module 11: Elastic Attaching Machine</p> <p>Aim: This module develops competency to complete a task on garment on this machine</p>	<p>LU-1 Introduction of Elastic Attaching machine.</p> <p>LU-2 Operator sitting posture.</p> <p>LU-3 Important parts of machine and their functions</p> <p>LU-4 Oiling and cleaning machine</p> <p>LU-5 Machine threading</p> <p>LU-6 Precautions.</p> <p>LU-7 Care in operations.</p> <p>LU-8 Needle & thread knowledge</p> <p>LU-9 Needle & thread breakages faults</p> <p>LU-10 Needle adjustment</p> <p>LU-11 Elastic roll adjustment</p> <p>LU-12 Stitch length adjustment</p> <p>LU-13 Adjustment of thread tension</p> <p>LU-14 Machine control exercises.</p>	<p>07</p>	<p>30</p>	<p>37</p>
<p>Module 12: Maintenance Assurance</p> <p>Aim: This module develops competency to understand the importance of maintenance, oiling, cleaning and rectify troubleshooting</p>	<p>LU-1 Periodic & preventive maintenance of machines</p> <p>LU-2 Periodic oiling of machines</p> <p>LU-3 Periodic cleaning of machines</p> <p>LU-4 Troubleshooting handling</p>	<p>10</p>	<p>20</p>	<p>30</p>

<p>Module 13: Garments Defects & Its Corrections</p> <p>Aim: This module develops competency to find all types of garments faults</p>	<p>LU-1 Sewing Faults. (Broken and skip stitches).</p> <p>LU-2 Washing faults.</p> <p>LU-3 Stains.</p> <p>LU-4 Fluff.</p> <p>LU-5 Knitting lines.</p> <p>LU-6 Pressing faults.</p> <p>LU-7 Clipping.</p> <p>LU-8 Types of Trims</p>	<p>04</p>	<p>20</p>	<p>24</p>
<p>Module 14: Garments Inspection & Grading</p> <p>Aim: This module develops competency to perform Clock wise inspection of the garment</p>	<p>LU-1 Method for inspection of the following:</p> <ul style="list-style-type: none"> i. T-Shirt. ii. Polo Shirt iii. Trouser iv. Denim Pant v. Measurement vi. Stitching faults. vii. Color faults viii. Stains. 	<p>04</p>	<p>20</p>	<p>24</p>

<p>Module 15: Pressing (Ironing) Garments</p> <p>Aim: This module develops competency to iron, check faults & remove them from the Garments to improve quality & Sorting the Garments</p>	<p>LU-1 Method for pressing of the following:</p> <ul style="list-style-type: none"> i. T-Shirt ii. Polo Shirt iii. Trouser iv. Denim Pant 	02	25	27
<p>Module 16: Flow Making for Garment</p> <p>Aim: This module develops competency to understand Garments inspection flow</p>	<p>LU-1Flow of Garment Making for the following:</p> <ul style="list-style-type: none"> i. T-Shirt. ii. Polo Shirt iii. Trouser iv. Denim Pant 	04	20	24
<p>Module 17: Health & safety, and basic first aid</p> <p>Aim: This module develops competency to understand the importance of health, safety, precautions and basic first aid</p>	<p>LU-1 Introduction & importance of operator's health & safety (health & safety care)</p> <p>LU-2 Introduction & importance of basic first aid</p>	15	20	35
<p>Projects:</p>	<ul style="list-style-type: none"> 1. T-shirt. 2. Polo shirt 3. Trousers with belt 4. Trousers with Elastic 5. Denim Pants 			
<p>Total Hours</p>		<p>160</p>	<p>640</p>	<p>800</p>

Industrial Stitching Machine Operator Curriculum Contents

Module 1 Title: Introduction to Garments & its essentials

Objective of the Module: To get acquaintance & understand the Garments & its essentials.

Duration: 35 hours. **Theory:**15 hours **Practice:**20 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration (Hours)	Materials Required	Learning Place
LU 1- Introduction of Thread and yarns	Able to understand various threads and yarns Able to use required threads according to the fabric	i. Explain various types of threads and yarns i. Demonstrate the use of required thread according to the fabric	3	<ul style="list-style-type: none"> • Different types of threads • Different types of yarns 	Class Room and work place both are used for learning.
LU 2- Fabric Identification	Able to identify various types of fabrics	i. Demonstrate various types of fabrics ii. Explain the difference between knitted and woven fabrics	5	<ul style="list-style-type: none"> • Different types of fabrics. 	Class Room and work place both are used for learning.
LU 3- Understanding of Chain System and piece system	Understand the sequence of chain system Understand the sequence of piece system	i. Explain chain system ii. Explain piece system iii. Demonstrate chain system iv. Demonstrate piece system	5	<ul style="list-style-type: none"> • Different types of fabrics. • Different types of threads • Different types of yarns • Hand tools 	Class Room and work place both are used for learning.
LU 4- Types of garments material & accessories	Understand and recognize the garments material & accessories.	i. Explain all types of garments material & accessories. ii. Demonstrate all types of garments material & accessories.	4	<ul style="list-style-type: none"> • All types of garments materials and accessories 	Class Room and work place both are used for learning.

LU 5- Types of garments	Understand and recognize the types of garments	i. Explain all types of garments ii. Demonstrate all types of garment	4	<ul style="list-style-type: none"> • All types of sample garments 	Class Room and work place both are used for learning.
LU 6- Types of stitching Machines	Recognize and understand the Stitching machine, their types, their operations and major differences between them. Understand and recognize the over lock machine, their types, their operations and major differences between them.	i. Demonstrate the stitching machine, their types ii. Show the working of a over lock machine iii. Explain the major differences in over lock machines i. Demonstrate the over lock machine, their types ii. Show the working of a stitching machine iii. Explain the major differences in stitching machines	7	<ul style="list-style-type: none"> • Various kinds of stitching and over lock machines 	Class Room and work place both are used for learning.
LU 7- Types of stitches their faults & their remedies	Recognize and understand the types of stitches their faults and their corrections	i. Explain the types of stitches ii. Explain the types of stitches faults iii. Demonstrate the stitches types, stitches faults and their solutions	7	<ul style="list-style-type: none"> • Stitching machine • Stitching thread • Fabric 	Class Room and work place both are used for learning.

Module 2 Title: Single needle lock stitch sewing Machine

Objective of the Module: To operate single needle lock stitch machine to stitch a garment

Duration: 180 hours. **Theory:**30 hours **Practice:**150 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Introduction to Machine Parts, Operator Sitting Posture	Recognize the machine parts and understand their functions Understand the importance/effect of sitting posture of operator on efficiency and personal health & safety	i. Display & explain the machine's parts & their specific functions. i. Explain & motivate Operator to sit in recommended posture to improve efficiency and personal safety simultaneously.	10 hours	<ul style="list-style-type: none"> Single needle lock stitch sewing Machine & tools to dismantle the machine 	Class Room and work place both are used for learning.
LU 2- Machine Cleaning, oiling and Basic Maintenance (precautions)	Understand the importance of Machine's cleaning, oiling and basic maintenance (precautions) and their effect on productivity & quality.	i. Explain the basic purpose of machine's cleaning, oiling and basic maintenance (precautions) ii. Demonstrate the effect of: machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality	04 hours		
LU3- Machine Threading	Understand the importance/effect of Machine Threading	i. Explain the machine threading ii. Demonstrate the machine threading	03hours	<ul style="list-style-type: none"> Various kinds and thread Single needle lock stitch sewing Machine 	Class Room and work place both are used for learning.
LU4- Needle Selection according to the Fabric	Understand the importance of right Needle Selection according to the Fabric being stitched	i. Explain the needle selection process ii. Explain the possible quality faults due to wrong selection	02hours	<ul style="list-style-type: none"> Various kinds of needles Single needle lock stitch 	

		iii. Demonstrate the needles by types/use, their selection process		sewing Machine <ul style="list-style-type: none"> • Set of Screw drivers 	
LU5- Adjustment of needle & bobbin case	Understand the importance of adjustment of needle and bobbin placement	i. Explain the needle's adjustment process ii. Explain the possible quality faults due to wrong adjustment iii. Demonstrate the needles adjustment process iv. Explain the bobbin's adjustment process v. Explain the possible quality faults due to wrong placement vi. Demonstrate the bobbin placement process	03hours	<ul style="list-style-type: none"> • Needles • Bobbin case • bobbin 	Class Room and work place both are used for learning.
LU6- Thread Breakages, their causes, and remedies	Recognize the Thread Breakages, their causes and remedies	i. Explain the causes of thread breakage ii. Explain the remedies of thread breakage	02hours	<ul style="list-style-type: none"> • Various kinds of needles 	Class Room and work place both are used for learning.
LU7- Needle Breakages, their causes and remedies	Recognize the needle, its Breakages & their causes	i. Explain the causes of needle breakage ii. Explain the remedies of thread breakage iii. Demonstrate the hazard of needle breakage to operator	02hours	<ul style="list-style-type: none"> • Various kinds of needles 	Class Room and work place both are used for learning.
LU8- Adjustment of upper & lower thread tension	Understand the adjustment of upper & lower thread tension.	i. Explain the Adjustment of upper thread tension ii. Explain the Adjustment of lower thread tension iii. Demonstrate the Adjustment of upper thread tension	02hours	<ul style="list-style-type: none"> • Various kinds and thread • Single needle lock stitch sewing Machine 	

		iv. Demonstrate the Adjustment of lower thread tension			
LU9- Use of different sizes of boots/presser foot	Able of right Selection of different sizes of boots, according to seams	i. Demonstrate the boot selection process ii. Demonstrate the possible quality faults due to wrong selection	02hours	<ul style="list-style-type: none"> • Various kinds of boots 	Class Room and work place both are used for learning.
LU10- Different types of attachments (zippers, gathers, hemming and edge seams)	Able to attach different attachments.	i. Explain how to attach zipper ii. Explain how to attach gather iii. Explain how to attach hemming iv. Explain how to attach edge seam v. Demonstrate how to attach zipper vi. Demonstrate how to attach gather vii. Demonstrate how to attach hemming viii. Demonstrate how to attach edge seam	10hours	<ul style="list-style-type: none"> • Single needle lock stitch sewing Machine • zippers • gathers • hemming and edge seams 	
LU11- Machine Control exercise	Able to control machine's speed	i. Explain the need to control the speed of machine ii. Demonstrate the technique how to control the speed of machine	40 hours	<ul style="list-style-type: none"> • Single needle lock stitch sewing Machine • Paper • Fabric • Thread 	Class Room and work place both are used for learning.
LU-12 Paper sew exercises without Thread: straight, curved, rectangle, square & circle etc.	Able to perform Paper sew exercises on fabric: straight, curved, rectangle, square & circle etc.	i. Demonstrate the sewing on paper, e.g. Straight, curved, rectangle, square & circle etc.		<ul style="list-style-type: none"> • Single needle lock stitch sewing Machine • Paper 	Class Room and work place both are used for learning.

LU13- Repeat the same exercises on different types of fabric.(Woven and knitted)	Able to perform Paper sew exercises without Thread: straight, curved, rectangle, square & circle etc.	i. Demonstrate the sewing on fabric, e.g. Straight, curved, rectangle, square & circle etc.		<ul style="list-style-type: none"> • Single needle lock stitch sewing Machine • Fabric 	Class Room and work place both are used for learning.
LU14- Practice to make pocket on fabric	Able to attach pocket on fabric	i. Demonstrate how to attach pocket on fabric		<ul style="list-style-type: none"> • Single needle lock stitch sewing Machine • Fabric 	Class Room and work place both are used for learning.
LU15- Practice to make placket on fabric	Able to make placket on sample fabric	i. Demonstrate how to make pocket on a sample fabric		<ul style="list-style-type: none"> • Single needle lock stitch sewing Machine • Fabric 	Class Room and work place both are used for learning.
LU16- Practice to make cuff & sleeve vent on fabric	Able to make cuff & sleeve vent on fabric	i. Explain how to make cuff & sleeve vent on fabric ii. Demonstrate how to make cuff & sleeve vent on fabric	100 hours	<ul style="list-style-type: none"> • Single needle lock stitch sewing Machine • Zip 	Class Room and work place both are used for learning.
LU17- Practice to make collar on fabric. Exercises	Able to make collar on fabric	i. Demonstrate how to make collar on a sample fabric		<ul style="list-style-type: none"> • Single needle lock stitch sewing Machine • Fabric 	Class Room and work place both are used for learning.

Module 3 Title: Over lock Machine

Objective of the Module: To operate Over lock Machine to stitch a garment

Duration: 105 hours. **Theory:** 20 hours **Practice:**85 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Introduction to over lock machine	Recognize the machine parts & their functions	i. Explain the machine's parts & get recognize the parts. ii. Demonstrate the machine's parts & get recognize the parts.	30 hrs	<ul style="list-style-type: none"> • Over lock Machine & tools to dismantle the machine • Oil • Cleaning fabric • Oiling & greasing tool 	Class Room and work place both are used for learning.
LU2- Operator sitting posture.	Understand the importance/effect of sitting posture of operator on efficiency and personal health & safety.	i. Demonstrate & motivate Operator to sit in recommended posture to improve efficiency and personal safety simultaneously.			
LU3- Important parts of machine and their functions	Recognize machine's important parts and understand their functions	i. Display machine's important parts. ii. Demonstrate & explain the machine's parts specific functions.			
LU4- Oiling and cleaning of machine	Understand the importance of Machine's cleaning, oiling.	i. Explain the basic purpose of machine's cleaning, oiling. ii. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality			Class Room and work place both are used for learning.

LU5- Machine Threading	Understand the importance/effect of Machine Threading	<ul style="list-style-type: none"> i. Explain the machine threading ii. Demonstrate the machine threading 			Class Room and work place both are used for learning.
LU6- Precautions.	Understand the electric & mechanical health & safety hazard to Operator	<ul style="list-style-type: none"> i. Demonstrate the health & safety hazard's precautions ii. Motivate Operator to observe the health & safety hazard's precautions iii. Demonstrate how to end the work on machine 			
LU7- Care in operation.	Observe care in machine's operations	<ul style="list-style-type: none"> i. Care in operation regarding productivity ii. Care in operation regarding quality 			
LU8- Needle & thread knowledge.	Understand how to select needle & thread	<ul style="list-style-type: none"> i. Demonstrate the needle & thread selection 			<ul style="list-style-type: none"> • Various kinds of needles & thread
LU9- Needle adjustment	Understand the need & importance of adjustment of needle	<ul style="list-style-type: none"> i. Explain the needle's adjustment process ii. Explain the possible quality faults due to wrong adjustment iii. Demonstrate the needles adjustment process 	40 hrs	<ul style="list-style-type: none"> • Over lock Machine & tools to dismantle the machine • Needles 	Class Room and work place both are used for learning.
LU10- Stitch length adjustment	Adjust and fix the stitch length per inch (SPI)	<ul style="list-style-type: none"> i. Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) ii. Demonstrate how to adjust and 		<ul style="list-style-type: none"> • Over lock Machine 	Class Room and work place both are used for learning.

		fix the stitch length per inch (SPI)			
LU11-Thread Tension & cutter adjustment	Understand the need and importance of Thread tension & cutter adjustment	<ul style="list-style-type: none"> i. Explain the need and importance of Thread Tension adjustment ii. Explain the need and importance of cutter adjustment iii. Demonstrate how to adjust the Thread tension iv. Demonstrate how to adjust the cutter adjustment 		<ul style="list-style-type: none"> • Over lock Machine 	Class Room and work place both are used for learning.
LU12-Machine control exercises.	Able to control machine's speed	<ul style="list-style-type: none"> i. Demonstrate the need & technique to control the speed of machine 		<ul style="list-style-type: none"> • Over lock Machine 	Class Room and work place both are used for learning.
LU13-Fabric shape exercises (Straight, round and curved)	Able to stitch fabric shapes	<ul style="list-style-type: none"> i. Demonstrate how to sew fabric shapes, e.g. Straight, round and curved 		<ul style="list-style-type: none"> • Over lock Machine • Fabric • Garments 	Class Room and work place both are used for learning.
LU14-Needle & thread breakages fault.	Recognize the needle, its Breakages & their causes	<ul style="list-style-type: none"> i. Explain the causes and effects of needle breakage on fabric & personal safety ii. Explain the causes of thread breakage iii. Explain the remedies of thread breakage iv. Demonstrate the causes and effects of thread breakage on fabric v. Demonstrate the hazard of needle breakage to fabric & 	35 hrs	<ul style="list-style-type: none"> • Over lock Machine • needles • threads 	Class Room and work place both are used for learning.

		operator's personal safety			
LU15- Over lock stitch variations	Understand over lock machine's stitch variations	<ul style="list-style-type: none"> i. Explain over lock machine's stitch variations ii. Demonstrate how to change machine's stitch. 		<ul style="list-style-type: none"> • Over lock Machine 	Class Room and work place both are used for learning.
LU16- Panel Exercises (Crotch, Arm hole, front and back panel, edges parallel.	Able to perform Panel Exercises	<ul style="list-style-type: none"> i. Demonstrate how to perform panel exercises e.g. Crotch, Arm hole, front and back panel edges parallel. 		<ul style="list-style-type: none"> • Over lock Machine • Fabric • Garments accessories 	
PROJECTS Over Lock the project which was stitched on the single needle Lock stitch sewing machine	To over lock the project, which was stitched on the single needle Lock stitch sewing machine	<ul style="list-style-type: none"> i. Supervise the stitching projects 	Three Days		Class Room and work place both are used for learning.

Module 4 Title: Button Hole Machine

Objective of the Module: To operate Button Hole Machine to complete a task on garment.

Duration: 37 hours. **Theory:**7 hours **Practice:**30 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Introduction to button hole machine	Recognize the machine parts & their functions	i. Explain the machine's parts & get recognize the parts. ii. Demonstrate the machine's parts & get recognize the parts.	7hr	<ul style="list-style-type: none"> • Button hole Machine & tools to dismantle the machine • Oil • Cleaning fabric • Oiling & greasing tool 	Class Room and work place both are used for learning.
LU2- Operator sitting posture.	Understand the importance/effect of sitting posture of operator on efficiency and personal health & safety.	i. Demonstrate & motivate Operator to sit in recommended posture to improve efficiency and personal safety simultaneously.			
LU3- Important parts of machine and their functions	Recognize machine's important parts and understand their functions	i. Display machine's important parts. ii. Demonstrate & explain the machine's parts specific functions.			
LU4- Oiling and cleaning of machine	Understand the importance of Machine's cleaning, oiling.	i. Explain the basic purpose of machine's cleaning, oiling. ii. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality			
LU5- Machine Threading	Understand the importance/effect of Machine Threading	i. Explain the machine threading ii. Demonstrate the machine threading			

LU6- Precautions.	Understand the electric & mechanical health & safety hazard to Operator	<ol style="list-style-type: none"> i. Demonstrate the health & safety hazard's precautions ii. Motivate Operator to observe the health & safety hazard's precautions iii. Demonstrate how to end the work on machine 			Class Room and work place both are used for learning.
LU7- Care in operation.	To observe care in machine's operations	<ol style="list-style-type: none"> i. Care in operation regarding productivity ii. Care in operation regarding quality 			Class Room and work place both are used for learning.
LU8- Needle & thread knowledge.	Understand how to select needle & thread	<ol style="list-style-type: none"> i. Demonstrate the needle & thread selection 		<ul style="list-style-type: none"> • Various kinds of needles & thread 	Class Room and work place both are used for learning.
LU9- Needle & cutter adjustment	Understand the need & importance of adjustment of needle & cutter	<ol style="list-style-type: none"> i. Explain the needle & cutter adjustment process ii. Explain the possible quality faults due to wrong adjustment iii. Demonstrate the needles adjustment process iv. Demonstrate the cutter adjustment process 		<ul style="list-style-type: none"> • Button hole Machine & tools to dismantle the machine • Needles 	Class Room and work place both are used for learning.
LU10- Button hole size, proper placement of fabric under presser foot	Understand the need and importance of Button hole size, proper placement of fabric under presser foot	<ol style="list-style-type: none"> i. Explain the need and importance of selection of cutter according to button size ii. Explain the placement of fabric under the presser foot iii. Demonstrate the selection of 	30 hrs	<ul style="list-style-type: none"> • Button hole Machine • Buttons • cutters 	Class Room and work place both are used for learning.

		iv. cutter according to button size Demonstrate the placement of fabric under the presser foot		
LU11- Practice of different sizes of button hole	To perform button hole operation	i. Demonstrate how to perform button hole operation		<ul style="list-style-type: none"> • Button hole Machine • Buttons • cutters <p>Class Room and work place both are used for learning.</p>
LU12- Needle & thread breakages fault.	Recognize the needle, its Breakages & their causes	i. Explain the causes and effects of needle breakage on fabric & personal safety ii. Explain the causes of thread breakage iii. Explain the remedies of thread breakage iv. Demonstrate the causes and effects of thread breakage on fabric v. Demonstrate the hazard of needle breakage to fabric & operator's personal safety		<ul style="list-style-type: none"> • Button hole Machine • needles • threads <p>Class Room and work place both are used for learning.</p>

Module 5 Title : Button Stitch/ Button Take Machine

Objective of the Module: To operate Button Stitch Machine to complete a task on garment on this machine

Duration: 37 hours. **Theory:**7 hours **Practice:**30 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Introduction to button stitch machine	Recognize the machine parts & their functions	i. Explain the machine's parts & get recognize the parts. ii. Demonstrate the machine's parts & get recognize the parts.	07 hrs	<ul style="list-style-type: none"> • Button stitch machine & tools to dismantle the machine • Button stitch Machine & tools to dismantle the machine • Oil • Cleaning fabric • Oiling & greasing tool 	Class Room and work place both are used for learning.
LU2- Operator sitting posture.	Understand the importance/effect of sitting posture of operator on efficiency and personal health & safety.	i. Demonstrate & motivate Operator to sit in recommended posture to improve efficiency and personal safety simultaneously.			
LU3- Important parts of machine and their functions	Recognize machine's important parts and understand their functions	i. Display machine's important parts. ii. Demonstrate & explain the machine's parts specific functions.			
LU4- Oiling and cleaning of machine	Understand the importance of Machine's cleaning, oiling.	i. Explain the basic purpose of machine's cleaning, oiling. ii. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality			Class Room and work place both are used for learning.
LU5- Machine Threading	Understand the importance/effect of Machine Threading	i. Explain the machine threading ii. Demonstrate the machine threading			

LU6-Precautions.	Understand the electric & mechanical health & safety hazard to Operator	<ol style="list-style-type: none"> i. Demonstrate the health & safety hazard's precautions ii. Motivate Operator to observe the health & safety hazard's precautions iii. Demonstrate how to end the work on machine 			Class Room and work place both are used for learning.
LU7-Care in operation.	Observe care in machine's operations	<ol style="list-style-type: none"> i. Care in operation regarding productivity ii. Care in operation regarding quality 			Class Room and work place both are used for learning.
LU8-Needle & thread knowledge	Understand how to select needle & thread	<ol style="list-style-type: none"> i. Demonstrate the needle & thread selection 		<ul style="list-style-type: none"> • Various kinds of needles & thread 	Class Room and work place both are used for learning.
LU9-Needle & thread breakages fault.	Recognize the needle, its Breakages & their causes	<ol style="list-style-type: none"> i. Explain the causes and effects of needle breakage on fabric & personal safety ii. Explain the causes of thread breakage iii. Explain the remedies of thread breakage iv. Demonstrate the causes and effects of thread breakage on fabric v. Demonstrate the hazard of needle breakage to fabric & operator's personal safety vi. 		<ul style="list-style-type: none"> • Button stitch Machine • needles • threads 	Class Room and work place both are used for learning.
LU10-Needle adjustment	Understand the need & importance of adjustment of needle	<ol style="list-style-type: none"> i. Explain the needle adjustment process ii. Explain the possible quality faults due to wrong adjustment 		<ul style="list-style-type: none"> • Button stitch Machine & tools to dismantle the 	Class Room and work place both are used for learning.

		iii. Demonstrate the needles adjustment process		<ul style="list-style-type: none"> • machine • Needles 	
LU11- Stitch length adjustment	Adjust and fix the stitch length per inch (SPI)	i. Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) ii. Demonstrate how to adjust and fix the stitch length per inch (SPI)	30 hours	<ul style="list-style-type: none"> • Button stitch Machine 	Class Room and work place both are used for learning.
LU12- Adjustment of thread tension	Understand the adjustment of thread tension.	i. Explain the Adjustment of thread tension ii. Demonstrate the Adjustment of thread tension		<ul style="list-style-type: none"> • Various kinds and thread • button stitch Machine 	Class Room and work place both are used for learning.
LU13- Pattern formation	Make pattern for button stitch machine	i. Demonstrate how to make pattern for button stitch machine		<ul style="list-style-type: none"> • Pattern • Corrugated sheet for making of pattern • Marker • cutter 	Class Room and work place both are used for learning.
LU14- Button marking with the help of pattern	Able to mark button place with pattern for button stitch machine	i. Demonstrate how to mark button place for button stitch machine		<ul style="list-style-type: none"> • Marker • Pattern • Garment 	Class Room and work place both are used for learning.
LU15- Adjustment of button on machine	Able to load the button into the machine	i. Demonstrate how to load the button into the machine		<ul style="list-style-type: none"> • Button • Fabric • button stitch Machine 	Class Room and work place both are used for learning.
LU16- Placement of fabric under	Able to place the fabric under the boot properly according the marking	i. Be able to place the fabric under the boot properly according the marking		<ul style="list-style-type: none"> • Button • Fabric • button stitch 	Class Room and work place both are used for

presser foot				Machine	learning.
LU17- Attach different sizes of button on fabric	Able to attach button on the mark properly	i. Demonstrate how to attach button on the mark fixed for button to proper hole		<ul style="list-style-type: none"> • Button • Fabric • button stitch Machine 	Class Room and work place both are used for learning.

Module 6 Title: Flat Lock Machine

Objective of the Module: To operate Flat Lock Machine to stitch a garment

Duration: 57 hours. **Theory:**07 hours **Practice:**50 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Introduction to flat lock machine	Recognize the machine parts & their functions	i. Explain the machine's parts & get recognize the parts. ii. Demonstrate the machine's parts & get recognize the parts.	07 hrs	<ul style="list-style-type: none"> • flat lock Machine & tools to dismantle the machine • Oil • Cleaning fabric • Oiling & greasing tool 	Class Room and work place both are used for learning.
LU2- Operator sitting posture.	Understand the importance/effect of sitting posture of operator on efficiency and personal health & safety.	i. Demonstrate & motivate Operator to sit in recommended posture to improve efficiency and personal safety simultaneously.			
LU3- Important parts of machine and their functions	To recognize machine's important parts and understand their functions	i. Display machine's important parts. ii. Demonstrate & explain the machine's parts specific functions.			
LU4- Oiling and cleaning of machine	Understand the importance of Machine's cleaning, oiling.	i. Explain the basic purpose of machine's cleaning, oiling. ii. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality			Class Room and work place both are used for learning.
LU5- Machine Threading	Understand the importance/effect of Machine Threading	i. Explain the machine threading ii. Demonstrate the machine threading			

LU6-Precautions.	Understand the electric & mechanical health & safety hazard to Operator	<ul style="list-style-type: none"> i. Demonstrate the health & safety hazard's precautions ii. Motivate Operator to observe the health & safety hazard's precautions iii. Demonstrate how to end the work on machine 			Class Room and work place both are used for learning.
LU7-Care in operation.	Observe care in machine's operations	<ul style="list-style-type: none"> i. Care in operation regarding productivity ii. Care in operation regarding quality 			Class Room and work place both are used for learning.
LU8-Needle & thread knowledge.	Understand how to select needle & thread	<ul style="list-style-type: none"> i. Demonstrate the needle & thread selection 		<ul style="list-style-type: none"> • Various kinds of needles & thread 	Class Room and work place both are used for learning.
LU9-Needle & thread breakages fault.	Recognize the needle, its Breakages & their causes	<ul style="list-style-type: none"> i. Explain the causes and effects of needle breakage on fabric & personal safety ii. Explain the causes of thread breakage iii. Explain the remedies of thread breakage iv. Demonstrate the causes and effects of thread breakage on fabric v. Demonstrate the hazard of needle breakage to fabric & operator's personal safety 		<ul style="list-style-type: none"> • Flat lock Machine • needles • threads 	Class Room and work place both are used for learning.
LU10-Needle adjustment	Understand the need & importance of adjustment of needle	<ul style="list-style-type: none"> i. Explain the needle adjustment process ii. Explain the possible quality faults due to wrong adjustment 		<ul style="list-style-type: none"> • Flat lock Machine & tools to dismantle the 	Class Room and work place both are used for learning.

		iii. Demonstrate the needles adjustment process		<ul style="list-style-type: none"> • machine • Needles 	
LU11- Stitch length adjustment	Able to adjust and fix the stitch length per inch (SPI)	i. Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) ii. Demonstrate how to adjust and fix the stitch length per inch (SPI)	30 hours	<ul style="list-style-type: none"> • Flat lock Machine 	Class Room and work place both are used for learning.
LU12- Adjustment of thread tension	Understand the adjustment of thread tension.	i. Explain the Adjustment of thread tension ii. Demonstrate the Adjustment of thread tension		<ul style="list-style-type: none"> • Various kinds and thread • Flat lock Machine 	Class Room and work place both are used for learning.
LU13- Machine Control exercise	Able to control machine's speed	i. Explain the need to control the speed of machine ii. Demonstrate the technique how to control the speed of machine	40 hours	<ul style="list-style-type: none"> • Flat lock Machine • Paper • Fabric • Thread 	Class Room and work place both are used for learning.
LU14- Panel Exercises (top stitch & sleeve hem.	Able to perform Panel Exercises	i. Demonstrate how to perform panel exercises e.g. Top stitch & sleeve hem.		<ul style="list-style-type: none"> • Flat lock Machine • Fabric • Garments accessories 	Class Room and work place both are used for learning.

Module 7 Title: Feed of Arm Machine

Objective of the Module: To operate Feed of Arm Machine to stitch a garment

Duration: 37 hours. **Theory:**07 hours **Practice:**30 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Introduction to feed of arm machine	Recognize the machine parts & their functions	i. Explain the machine's parts & get recognize the parts. ii. Demonstrate the machine's parts & get recognize the parts.	07 hrs	<ul style="list-style-type: none"> • Feed of arm Machine & tools to dismantle the machine • Oil • Cleaning fabric • Oiling & greasing tool 	Class Room and work place both are used for learning.
LU2- Operator sitting posture.	Understand the importance/effect of sitting posture of operator on efficiency and personal health & safety.	i. Demonstrate & motivate Operator to sit in recommended posture to improve efficiency and personal safety simultaneously.			
LU3- Important parts of machine and their functions	Recognize machine's important parts and understand their functions	i. Display machine's important parts. ii. Demonstrate & explain the machine's parts specific functions.			
LU4- Oiling and cleaning of machine	Understand the importance of Machine's cleaning, oiling.	i. Explain the basic purpose of machine's cleaning, oiling. ii. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality			
LU5- Machine Threading	Understand the importance/effect of Machine Threading	i. Explain the machine threading ii. Demonstrate the machine threading			

LU6-Precautions.	Understand the electric & mechanical health & safety hazard to Operator	<ul style="list-style-type: none"> i. Demonstrate the health & safety hazard's precautions ii. Motivate Operator to observe the health & safety hazard's precautions iii. Demonstrate how to end the work on machine 			Class Room and work place both are used for learning.
LU7-Care in operation.	Able to observe care in machine's operations	<ul style="list-style-type: none"> i. Care in operation regarding productivity ii. Care in operation regarding quality 			Class Room and work place both are used for learning.
LU8-Needle & thread knowledge.	Understand how to select needle & thread	<ul style="list-style-type: none"> i. Demonstrate the needle & thread selection 		<ul style="list-style-type: none"> • Various kinds of needles & thread 	Class Room and work place both are used for learning.
LU9-Needle & thread breakages fault.	Recognize the needle, its Breakages & their causes	<ul style="list-style-type: none"> i. Explain the causes and effects of needle breakage on fabric & personal safety ii. Explain the causes of thread breakage iii. Explain the remedies of thread breakage iv. Demonstrate the causes and effects of thread breakage on fabric v. Demonstrate the hazard of needle breakage to fabric & operator's personal safety 		<ul style="list-style-type: none"> • Feed of arm Machine • needles • threads 	Class Room and work place both are used for learning.
LU10-Needle adjustment	Understand the need & importance of adjustment of needle	<ul style="list-style-type: none"> i. Explain the needle adjustment process ii. Explain the possible quality faults 	30 hours	<ul style="list-style-type: none"> • Feed of arm Machine & tools to 	Class Room and work place both are used for

		iii. due to wrong adjustment Demonstrate the needles adjustment process		dismantle the machine • Needles	learning.
LU11- Folder Attachment	Understand the need & importance of Folder Attachment	i. Explain the Folder Attachment process ii. Explain the possible quality faults due to wrong adjustment iii. Demonstrate the Folder Attachment process		• Feed of arm Machine & tools to dismantle the machine • Needles	Class Room and work place both are used for learning.
LU12- Stitch length adjustment	Able to adjust and fix the stitch length per inch (SPI)	i. Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) ii. Demonstrate how to adjust and fix the stitch length per inch (SPI)		• Feed of arm Machine	Class Room and work place both are used for learning.
LU13- Adjustment of thread tension	Understand the adjustment of thread tension.	i. Explain the Adjustment of thread tension ii. Demonstrate the Adjustment of thread tension		• Various kinds and thread • feed of arm Machine	Class Room and work place both are used for learning.
LU14- Machine Control exercise	Able to control machine's speed	i. Explain the need to control the speed of machine ii. Demonstrate the technique how to control the speed of machine		• Feed of arm Machine • Paper • Fabric • Thread	Class Room and work place both are used for learning.
LU15- Panel Exercises (top stitch & sleeve hem.	Able to perform Panel Exercises	i. Demonstrate how to perform panel exercises e.g. Top stitch & sleeve hem.		• Feed of arm Machine • Fabric • Garments accessories	Class Room and work place both are used for learning.

Module 8 Title: Twin Needle Lock Stitch Machine

Objective of the Module: To operate Twin needle Lock Stitch Machine to stitch a garment

Duration: 47 hours. **Theory:**07 hours **Practice:**40 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Introduction to twin needle lock Stitch machine	Recognize the machine parts & their functions	i. Explain the machine's parts & get recognize the parts. ii. Demonstrate the machine's parts & get recognize the parts.	07 hrs	<ul style="list-style-type: none"> • Twin needle lock Stitch Machine & tools to dismantle the machine • Oil • Cleaning fabric • Oiling & greasing tool 	Class Room and work place both are used for learning.
LU2- Operator sitting posture.	Understand the importance/effect of sitting posture of operator on efficiency and personal health & safety.	i. Demonstrate & motivate Operator to sit in recommended posture to improve efficiency and personal safety simultaneously.			
LU3- Important parts of machine and their functions	Recognize machine's important parts and understand their functions	i. Display machine's important parts. ii. Demonstrate & explain the machine's parts specific functions.			
LU4- Oiling and cleaning of machine	Understand the importance of Machine's cleaning, oiling.	i. Explain the basic purpose of machine's cleaning, oiling. ii. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality			
LU5- Machine Threading	Understand the importance/effect of Machine Threading	i. Explain the machine threading ii. Demonstrate the machine threading			

LU6-Precautions.	Understand the electric & mechanical health & safety hazard to Operator	<ol style="list-style-type: none"> i. Demonstrate the health & safety hazard's precautions ii. Motivate Operator to observe the health & safety hazard's precautions iii. Demonstrate how to end the work on machine 			Class Room and work place both are used for learning.
LU7-Care in operation.	Able to observe care in machine's operations	<ol style="list-style-type: none"> i. Care in operation regarding productivity ii. Care in operation regarding quality 			Class Room and work place both are used for learning.
LU8-Needle & thread knowledge.	Understand how to select needle & thread	<ol style="list-style-type: none"> i. Demonstrate the needle & thread selection 		<ul style="list-style-type: none"> • Various kinds of needles & thread 	Class Room and work place both are used for learning.
LU9-Needle & thread breakages fault.	Recognize the needle, its Breakages & their causes	<ol style="list-style-type: none"> i. Explain the causes and effects of needle breakage on fabric & personal safety ii. Explain the causes of thread breakage iii. Explain the remedies of thread breakage iv. Demonstrate the causes and effects of thread breakage on fabric v. Demonstrate the hazard of needle breakage to fabric & operator's personal safety 		<ul style="list-style-type: none"> • Twin needle lock Stitch Machine • needles • threads 	Class Room and work place both are used for learning.
LU10-Needle adjustment	Understand the need & importance of adjustment of needle	<ol style="list-style-type: none"> i. Explain the needle adjustment process ii. Explain the possible quality faults due to wrong adjustment 	40 hours	<ul style="list-style-type: none"> • Twin needle lock Stitch Machine & tools to 	Class Room and work place both are used for learning.

		iii. Demonstrate the needles adjustment process		dismantle the machine	
LU11- Stitch length adjustment	Able to adjust and fix the stitch length per inch (SPI)	i. Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) ii. Demonstrate how to adjust and fix the stitch length per inch (SPI)		• Needles • Feed of arm Machine	Class Room and work place both are used for learning.
LU12- Adjustment of thread tension	Understand the adjustment of thread tension.	i. Explain the Adjustment of thread tension ii. Demonstrate the Adjustment of thread tension		• Various kinds and thread • twin needle lock Stitch Machine	Class Room and work place both are used for learning.
LU13- Machine Control exercise	Able to control machine's speed	i. Explain the need to control the speed of machine ii. Demonstrate the technique how to control the speed of machine		• Twin needle lock Stitch Machine • Paper • Fabric • Thread	Class Room and work place both are used for learning.
LU14- Panel Exercises (top stitch & sleeve hem.	Able to perform Panel Exercises	i. Demonstrate how to perform panel exercises e.g. Top stitch & sleeve hem.		• Twin needle lock Stitch Machine • Fabric • Garments accessories	Class Room and work place both are used for learning.

Module 9 Title: Bartak Machine

Objective of the Module: To operate Bartak Machine to complete a task on garment.

Duration: 37 hours. **Theory:** 7 hours **Practice:** 30 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Introduction to Bar Tack machine	Able to recognize the machine parts & their functions	i. Explain the machine's parts & get recognize the parts. ii. Demonstrate the machine's parts & get recognize the parts.	07 hrs	<ul style="list-style-type: none"> • Bar Tack machine & tools to dismantle the machine • Bar Tack Machine & tools to dismantle the machine • Oil • Cleaning fabric • Oiling & greasing tool 	Class Room and work place both are used for learning.
LU2- Operator sitting posture.	Understand the importance/effect of sitting posture of operator on efficiency and personal health & safety.	i. Demonstrate & motivate Operator to sit in recommended posture to improve efficiency and personal safety simultaneously.			Class Room and work place both are used for learning.
LU3- Important parts of machine and their functions	Able to recognize machine's important parts and understand their functions	i. Display machine's important parts. ii. Demonstrate & explain the machine's parts specific functions.			Class Room and work place both are used for learning.
LU4- Oiling and cleaning of machine	Understand the importance of Machine's cleaning, oiling.	i. Explain the basic purpose of machine's cleaning, oiling. ii. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality			Class Room and work place both are used for learning.
LU5- Machine Threading	Understand the importance/effect of Machine Threading	i. Explain the machine threading ii. Demonstrate the machine threading			Class Room and work place both are used for learning.

LU6- Precautions.	Understand the electric & mechanical health & safety hazard to Operator	<ol style="list-style-type: none"> i. Demonstrate the health & safety hazard's precautions ii. Motivate Operator to observe the health & safety hazard's precautions iii. Demonstrate how to end the work on machine 			Class Room and work place both are used for learning.
LU7- Care in operation.	Able to observe care in machine's operations	<ol style="list-style-type: none"> i. Care in operation regarding productivity ii. Care in operation regarding quality 			Class Room and work place both are used for learning.
LU8- Needle & thread knowledge.	Understand how to select needle & thread	<ol style="list-style-type: none"> i. Demonstrate the needle & thread selection 		<ul style="list-style-type: none"> • Various kinds of needles & thread 	Class Room and work place both are used for learning.
LU9- Needle & thread breakages fault.	Able to recognize the needle, its Breakages & their causes	<ol style="list-style-type: none"> i. Explain the causes and effects of needle breakage on fabric & personal safety ii. Explain the causes of thread breakage iii. Explain the remedies of thread breakage iv. Demonstrate the causes and effects of thread breakage on fabric v. Demonstrate the hazard of needle breakage to fabric & operator's personal safety 		<ul style="list-style-type: none"> • Bar Tack Machine • needles • threads 	Class Room and work place both are used for learning.

LU10- Needle adjustment	Understand the need & importance of adjustment of needle	<ul style="list-style-type: none"> i. Explain the needle adjustment process ii. Explain the possible quality faults due to wrong adjustment iii. Demonstrate the needles adjustment process 	40 hours	<ul style="list-style-type: none"> • Bar Tack Machine & tools to dismantle the machine • Needles 	Class Room and work place both are used for learning.
LU11- Stitch length adjustment	Able to adjust and fix the stitch length per inch (SPI)	<ul style="list-style-type: none"> i. Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) ii. Demonstrate how to adjust and fix the stitch length per inch (SPI) 		<ul style="list-style-type: none"> • Bar Tack Machine 	Class Room and work place both are used for learning.
LU12- Adjustment of thread tension	Understand the adjustment of thread tension.	<ul style="list-style-type: none"> i. Explain the Adjustment of thread tension ii. Demonstrate the Adjustment of thread tension 		<ul style="list-style-type: none"> • Various kinds and thread • Bar Tack Machine 	Class Room and work place both are used for learning.
LU13- Machine Control exercise	Able to control machine's speed	<ul style="list-style-type: none"> i. Explain the need to control the speed of machine ii. Demonstrate the technique how to control the speed of machine 		<ul style="list-style-type: none"> • Bar Tack Stitch Machine • Paper • Fabric • Thread 	Class Room and work place both are used for learning.

Module 10 Title: Loop Making Machine

Objective of the Module: To operate Loop Making Machine to complete a task on garment.

Duration: 37 hours. **Theory:** 7 hours **Practice:** 30 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Introduction to Loop Making Machine	Recognize the machine parts & their functions	i. Explain the machine's parts & get recognize the parts. ii. Demonstrate the machine's parts & get recognize the parts.	07 hrs	<ul style="list-style-type: none"> • Loop Making Machine & tools to dismantle the machine • Oil • Cleaning fabric • Oiling & greasing tool 	Class Room and work place both are used for learning.
LU2- Operator sitting posture.	Understand the importance/effect of sitting posture of operator on efficiency and personal health & safety.	i. Demonstrate & motivate Operator to sit in recommended posture to improve efficiency and personal safety simultaneously.			
LU3- Important parts of machine and their functions	Able to recognize machine's important parts and understand their functions	i. Display machine's important parts. ii. Demonstrate & explain the machine's parts specific functions.			
LU4- Oiling and cleaning of machine	Understand the importance of Machine's cleaning, oiling.	i. Explain the basic purpose of machine's cleaning, oiling. ii. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality			Class Room and work place both are used for learning.
LU5- Machine Threading	Understand the importance/effect of Machine Threading	i. Explain the machine threading ii. Demonstrate the machine threading			

LU6-Precautions.	Understand the electric & mechanical health & safety hazard to Operator	<ol style="list-style-type: none"> i. Demonstrate the health & safety hazard's precautions ii. Motivate Operator to observe the health & safety hazard's precautions iii. Demonstrate how to end the work on machine 			Class Room and work place both are used for learning.
LU7-Care in operation.	Able to observe care in machine's operations	<ol style="list-style-type: none"> i. Care in operation regarding productivity ii. Care in operation regarding quality 			Class Room and work place both are used for learning.
LU8-Needle & thread knowledge.	Understand how to select needle & thread	<ol style="list-style-type: none"> i. Demonstrate the needle & thread selection 		<ul style="list-style-type: none"> • Various kinds of needles & thread 	Class Room and work place both are used for learning.
LU9-Needle & thread breakages fault.	Able to recognize the needle, its Breakages & their causes	<ol style="list-style-type: none"> i. Explain the causes and effects of needle breakage on fabric & personal safety ii. Explain the causes of thread breakage iii. Explain the remedies of thread breakage iv. Demonstrate the causes and effects of thread breakage on fabric v. Demonstrate the hazard of needle breakage to fabric & operator's personal safety 		<ul style="list-style-type: none"> • Loop Making Machine • needles • threads 	Class Room and work place both are used for learning.
LU10-Needle	Understand the need & importance of adjustment of	<ol style="list-style-type: none"> i. Explain the needle adjustment process 	30 hours	<ul style="list-style-type: none"> • Loop Making Machine & 	Class Room and work place both

adjustment	needle	<ul style="list-style-type: none"> ii. Explain the possible quality faults due to wrong adjustment iii. Demonstrate the needles adjustment process 		<ul style="list-style-type: none"> tools to dismantle the machine • Needles 	are used for learning.
LU11- Folder Attachment	Understand the need & importance of Folder Attachment of various sizes	<ul style="list-style-type: none"> i. Explain the Folder Attachment process ii. Explain the possible quality faults due to wrong adjustment iii. Demonstrate the Folder Attachment process 		<ul style="list-style-type: none"> • Loop Making Machine & tools to dismantle the machine • Needles 	Class Room and work place both are used for learning.
LU12- Stitch length adjustment	Able to adjust and fix the stitch length per inch (SPI)	<ul style="list-style-type: none"> i. Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) ii. Demonstrate how to adjust and fix the stitch length per inch (SPI) 		<ul style="list-style-type: none"> • Loop Making Machine • Fabric • Thread 	Class Room and work place both are used for learning.
LU13- Adjustment of thread tension	Able to understand the adjustment of thread tension.	<ul style="list-style-type: none"> i. Explain the Adjustment of thread tension ii. Demonstrate the Adjustment of thread tension 		<ul style="list-style-type: none"> • Various kinds and thread • Loop Making Machine 	Class Room and work place both are used for learning.
LU14- Machine Control exercise	Able to control machine's speed	<ul style="list-style-type: none"> i. Explain the need to control the speed of machine ii. Demonstrate the technique how to control the speed of machine 		<ul style="list-style-type: none"> • Loop Making Machine • Paper • Fabric • Thread 	Class Room and work place both are used for learning.

Module 11 Title : Elastic Attaching Machine

Objective of the Module: To operate Loop Making Machine to complete a task on garment.

Duration: 37 hours. **Theory:** 7 hours **Practice:** 30 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Introduction to Elastic Attaching Machine	Able to recognize the machine parts & their functions	i. Explain the machine's parts & get recognize the parts. ii. Demonstrate the machine's parts & get recognize the parts.	07 hrs	<ul style="list-style-type: none"> • Elastic Attaching Machine & tools to dismantle the machine • Oil • Cleaning fabric • Oiling & greasing tool 	Class Room and work place both are used for learning.
LU2- Operator sitting posture.	Understand the importance/effect of sitting posture of operator on efficiency and personal health & safety.	i. Demonstrate & motivate Operator to sit in recommended posture to improve efficiency and personal safety simultaneously.			
LU3- Important parts of machine and their functions	Able to recognize machine's important parts and understand their functions	i. Display machine's important parts. ii. Demonstrate & explain the machine's parts specific functions.			
LU4- Oiling and cleaning of machine	Understand the importance of Machine's cleaning, oiling.	i. Explain the basic purpose of machine's cleaning, oiling. ii. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality			
LU5- Machine Threading	Understand the importance/effect of Machine Threading	i. Explain the machine threading ii. Demonstrate the machine threading			

LU6-Precautions.	Understand the electric & mechanical health & safety hazard to Operator	<ol style="list-style-type: none"> i. Demonstrate the health & safety hazard's precautions ii. Motivate Operator to observe the health & safety hazard's precautions iii. Demonstrate how to end the work on machine 			Class Room and work place both are used for learning.
LU7-Care in operation.	Able to observe care in machine's operations	<ol style="list-style-type: none"> i. Care in operation regarding productivity ii. Care in operation regarding quality 			Class Room and work place both are used for learning.
LU8-Needle & thread knowledge.	Understand how to select needle & thread	<ol style="list-style-type: none"> i. Demonstrate the needle & thread selection 		<ul style="list-style-type: none"> • Various kinds of needles & thread 	Class Room and work place both are used for learning.
LU9-Needle & thread breakages fault.	Recognize the needle, its Breakages & their causes	<ol style="list-style-type: none"> i. Explain the causes and effects of needle breakage on fabric & personal safety ii. Explain the causes of thread breakage iii. Explain the remedies of thread breakage iv. Demonstrate the causes and effects of thread breakage on fabric v. Demonstrate the hazard of needle breakage to fabric & operator's personal safety 		<ul style="list-style-type: none"> • Elastic Attaching Machine needles • threads 	Class Room and work place both are used for learning.
LU10-Needle adjustment	Understand the need & importance of adjustment of needle	<ol style="list-style-type: none"> i. Explain the needle adjustment process ii. Explain the possible quality faults due to wrong adjustment 	30 hours	<ul style="list-style-type: none"> • Elastic Attaching Machine & tools to 	Class Room and work place both are used for learning.

		iii. Demonstrate the needles adjustment process		dismantle the machine • Needles	
LU11- Elastic Roll Adjustment	Able to select elastic size according to belt size	i. Explain selection of elastic size according to belt size ii. Explain the possible quality faults due to wrong selection iii. Demonstrate how to adjust the elastic roll		• Elastic Attaching Machine Machine & tools to dismantle the machine • Needles	Class Room and work place both are used for learning.
LU12- Stitch length adjustment	Able to adjust and fix the stitch length per inch (SPI)	i. Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) ii. Demonstrate how to adjust and fix the stitch length per inch (SPI)		• Elastic Attaching Machine	Class Room and work place both are used for learning.
LU13- Adjustment of thread tension	Understand the adjustment of thread tension.	i. Explain the Adjustment of thread tension ii. Demonstrate the Adjustment of thread tension		• Various kinds and thread • Elastic Attaching Machine	Class Room and work place both are used for learning.
LU14- Machine Control exercise	Able to control machine's speed	i. Explain the need to control the speed of machine ii. Demonstrate the technique how to control the speed of machine		• Elastic Attaching Machine Machine • Paper • Fabric • Thread	Class Room and work place both are used for learning.

Module 12 Title: Maintenance assurance

Objective of the Module: To understand the importance of maintenance, maintenance assurance, oiling, cleaning and rectifying troubleshooting.

Duration: 30 hours. **Theory:**10 hours **Practice:**20 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Periodic & preventive maintenance of machine	Understand the importance of periodic & preventive maintenance of the machines.	<ol style="list-style-type: none"> i. Explain periodic & preventive maintenance's purpose ii. Explain how the operator is responsible, (e.g. like any car's driver) for the assurance of the maintenance of the machines. iii. Explain how the operator is responsible, (e.g. like any car's driver) for update the maintenance log book of the machines. iv. Demonstrate Oiling & Greasing process 	30 hours	<ul style="list-style-type: none"> • Different types and grading of oil & grease • Cleaning cloth • Oil • Cleaning fabric • Oiling & greasing tool 	Class Room and work place both are used for learning.
LU2- Periodic oiling of machine	Understand the importance of oiling of the machines.	<ol style="list-style-type: none"> i. Explain the oil & grease types ii. Explain oiling purpose iii. Explain the oil & grease recommended/selected for the machine iv. Demonstrate the oiling points and oil change of the machine v. Demonstrate Oiling & Greasing process 			
LU3- Periodic cleaning of machine	Understand the importance of cleaning of the machines.	<ol style="list-style-type: none"> i. ii. Demonstrate the cleaning points/parts of the machines iii. Demonstrate cleaning purpose 			

LU4- Troubleshooting handling	Understand the trouble shootings of the machines.	<ul style="list-style-type: none"> iv. Demonstrate the possible trouble shooting points v. Demonstrate the possible breakdowns in the machines 			
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Module13 Title:Garments Defects& Its Corrections

Objective of the Module: To find all types of garments faults

Duration: 24 hours. **Theory:**04 hours **Practice:**20 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Sewing Faults. (Broken and skip stitches).	Capable of identify all the faults of sewing.	i. Display all types of sewing faults. ii. Demonstrate how to identify & how to remove the faults of sewing.	24hrs	<ul style="list-style-type: none"> • Garments • Quality/defects standard points • Scissors • Quality Performa & pen to record faults and its points 	Class Room and work place both are used for learning.
LU2- Washing faults.	Be able to identify all types of washing faults.	i. Display all types of washing faults. ii. Demonstrate how to identify & how to remove the faults of Washing. iii. Sort out OK garments			
LU3- Stains.	Be able to identify all types of stains.	i. Display all types of stains. ii. Demonstrate how to identify & how to remove the all types of stains iii. Sort out OK garments			
LU4- Fluff.	Identify the presence of fluff on the garments.	i. Display the fabric with fluff present on it. ii. Demonstrate how to identify & how to remove the fluff form the garments. iii. Sort out OK garments			
LU5- Knitting lines.	Identify knitting lines & weaving faults on garments.	i. Display the fabric with knitting lines & weaving faults present on it. ii. Demonstrate how to identify &			

		handle knitting lines or weaving faults on garments.			
LU6-Pressing faults.	Be able to identify all the faults due to pressing.	<ul style="list-style-type: none"> i. Display all the pressing faults. ii. Demonstrate how to identify & remove or handle the pressing faults. 			
LU7-Clipping.	Be able to clip the extra threads on garments	<ul style="list-style-type: none"> i. Demonstrate how to clip the garments 			
LU8-Trims	Be able to trim the extra threads on garments	<ul style="list-style-type: none"> i. Demonstrate how to trim the extra threads on garments 			

Module 14 Title: Garments Inspection & Grading

Objective of the Module: To perform Clock wise inspection of the garment

Duration: 24 hours. **Theory:**04 hours **Practice:**20 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Method for inspection of the following i.e. 1 T-shirt 2. Polo shirt 3. Trouser 4.Denim pant 5. Measurements 6.Stitching faults 7.color faults 8.stains	Be able to learn how to inspect the garments clock wise direction grading the garments, and how to measure the garments specifications	<p>i. Demonstrate how to inspect clock wise and grading the following garments: 1 T-shirt 2. Polo shirt 3. Trouser 4.Denim pant 5. Measurements 6.Stitching faults</p> <p>ii. Demonstrate how to measure garments of different styles.</p>	24hrs	<ul style="list-style-type: none">• Measuring tape• Garments of different styles	Class Room and work place both are used for learning.

Module 15 Title: Pressing (Ironing) the Garments

Objective of the Module: To iron to remove creases, check faults & remove them from the Garments to improve quality & Sorting the garments.

Duration: 27 hours. **Theory:**02 hours **Practice:**25 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Pressing (ironing) the following garments: 1. T-shirt 2. Polo shirt 3. Trouser 4. Denim pant	Able to iron to remove creases and to over view the major faults.	<ol style="list-style-type: none">i. Demonstrate how to spread the garment for pressingii. Demonstrate how to use the Vacuum pressing tableiii. Demonstrate how to adjust Iron's thermostat with respect to the material of the garments.iv. Demonstrate how to adjust the steam with respect to the material of the garmentsv. Demonstrate how to remove Creasesvi. Demonstrate how to fold the garments during pressing	27 Hours	<ul style="list-style-type: none">• Steam Iron• Steam boiler• Vacuum table	Class Room and work place both are used for learning.

Module 16 Title: Flow Making for Garments

Objective of the Module: To understand Garments inspection flow

Duration: 24 hours. **Theory:**4 hours **Practice:**20 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Flow Making for Garments of the following: 1. T-shirt 2. Polo shirt 3. Trouser 4. Denim pant	Understand the sequence of stitching flow of different styles of garments	i. Explain the garments stitching flow of each of the garments 1 T-shirt 2. Polo shirt 3. Trouser 4. Denim pant	24 Hrs.	<ul style="list-style-type: none">Different styles of garments cuttings	Class Room and work place both are used for learning.

Module 17 Title: Health, safety, and basic first aid

Objective of the Module: To take health & safety measures and master to perform basic first aid

Duration: 35 hours. **Theory:**15 hours **Practice:**20 hours.

Learning Unit	Learning Outcome	Learning Elements	Duration	Materials Required	Learning Place
LU1- Introduction to importance of operator's health & safety (health & safety care)	Understand the possible electrical & mechanical hazards to operator from the running machines. Able to perform the precautionary measure for personal health & safety to Operator	i. Demonstrate the possible personal hazard points i. Demonstrate the precautionary measures for the prevention of injury/medical emergency	35 hours	<ul style="list-style-type: none"> • All types of machines • First aid box 	Class Room and work place both are used for learning.
LU2- Introduction to importance of basic first aid	Able to handle injury/medical emergency prior to hospitalization(if needed)	i. Name & Demonstrate how and when to use items in the first aid box			
Projects: Trainee will stitch:		<ol style="list-style-type: none"> 1. T-shirt. 2. Polo shirt 3. Trouser with belt 4. Trouser with Elastic 5. Denim Pant 		At the end of the course, Trainee's time to stitch and its quality will be assessed	

Industrial Stitching Machine Operator Curriculum Assessment

Module 1 Title: Introduction to Garments & its essentials

Objective of the Module: To get acquaintance & understand the Garments & its essentials.

Duration: 35 hours. **Theory:**15 hours **Practice:**20 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M1-LU1 Introduction of Thread and yarns	15hours	20 hours	Trainee will: <ul style="list-style-type: none"> • Explain various types of threads and yarns • Demonstrate the use of required thread according to the fabric 	<ul style="list-style-type: none"> • Oral • Practical/Demonstrate • MCQs • Short questions 	At the end of module
M1-LU2 Fabric Identification			Trainee will: <ul style="list-style-type: none"> • Demonstrate various types of fabrics • Explain the difference between knitted and woven fabrics 		
M1-LU3 Understanding of Chain System and piece system			Trainee will: <ul style="list-style-type: none"> • Explain chain system • Explain piece system • Demonstrate chain system • Demonstrate piece system 		
M1-LU4 Types of garments material & accessories			Trainee will: <ul style="list-style-type: none"> • Explain all types of garments material & accessories. • Demonstrate all types of garments material & accessories. 		
M1-LU5 Types of garments			Trainee will: <ul style="list-style-type: none"> • Explain all types of garments • Demonstrate all types of garment 		

<p>M1-LU6 Types of stitching Machines</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate the stitching machine, their types • Show the working of a over lock machine • Explain the major differences in over lock machines 		
<p>M1-LU7 Types of stitches their faults & their remedies</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate the over lock machine, their types • Show the working of a stitching machine • Explain the major differences in stitching machines 		
			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the types of stitches • Explain the types of stitches faults • Demonstrate the stitches types, stitches faults and their solutions 		

Module 2 Title: Single needle lock stitch sewing Machine

Objective of the Module: To operate single needle lock stitch machine to stitch a garment

Duration: 180 hours. **Theory:**30 hours **Practice:**150 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M2-LU1 Introduction to Machine Parts, Operator Sitting Posture	30hours	140 hours	Trainee will: <ul style="list-style-type: none"> • Display & explain the machine's parts & their specific functions. 	<ul style="list-style-type: none"> • Oral • Practical/Demonstrate(time to perform some specific operation & quality will be graded) • MCQs • Short questions 	At the end of module
M2-LU2 Machine Cleaning, oiling and Basic Maintenance (precautions)			Trainee will: <ul style="list-style-type: none"> • Explain & motivate Operator to sit in recommended posture to improve efficiency and personal safety simultaneously. 		
M2-LU3 Machine Threading			Trainee will: <ul style="list-style-type: none"> • Explain the basic purpose of machine's cleaning, oiling and basic maintenance (precautions) • Demonstrate the effect of: machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality 		
M2-LU4 Needle Selection according to the Fabric			Trainee will: <ul style="list-style-type: none"> • Explain the machine threading • Demonstrate the machine threading 		
			Trainee will: <ul style="list-style-type: none"> • Explain the needle selection process • Explain the possible quality faults due to wrong selection • Demonstrate the needles by types/use, their selection process 		

<p>M2-LU5 Adjustment of needle & bobbin case</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the needle's adjustment process • Explain the possible quality faults due to wrong adjustment • Demonstrate the needles adjustment process • Explain the bobbin's adjustment process • Explain the possible quality faults due to wrong placement • Demonstrate the bobbin placement process 		
<p>M2-LU6 Thread Breakages, their causes, and remedies</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the causes of thread breakage • Explain the remedies of thread breakage 		
<p>M2-LU7 Needle Breakages, their causes and remedies</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the causes of needle breakage • Explain the remedies of thread breakage • Demonstrate the hazard of needle breakage to operator 		
<p>M2-LU8 Adjustment of upper & lower thread tension</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the Adjustment of upper thread tension • Explain the Adjustment of lower thread tension • Demonstrate the Adjustment of upper thread tension • Demonstrate he Adjustment of lower thread tension 		
<p>M2-LU9 Use of different sizes of boots/presser foot</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate the boot selection process • Demonstrate the possible quality faults due to wrong selection 		

<p>M2-LU10 Different types of attachments (zippers, gathers, hemming and edge seams)</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain how to attach zipper • Explain how to attach gather • Explain how to attach hemming • Explain how to attach edge seam • Demonstrate how to attach zipper • Demonstrate how to attach gather • Demonstrate how to attach hemming • Demonstrate how to attach edge seam 		
<p>M2-LU11 Machine Control exercise</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the need to control the speed of machine • Demonstrate the technique how to control the speed of machine 		
<p>M2-LU12 Paper sew exercises without Thread: straight, curved, rectangle, square & circle etc.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate the sewing on paper, e.g. Straight, curved, rectangle, square & circle etc. 		
<p>M2-LU13 Repeat the same exercises on different types of fabric.(Woven and knitted)</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate the sewing on fabric, e.g. Straight, curved, rectangle, square & circle etc. 		
<p>M2-LU14 Practice to</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate how to attach pocket on fabric 		

make pocket on fabric					
M2-LU15 Practice to make placket on fabric			Trainee will: <ul style="list-style-type: none"> • Demonstrate how to make pocket on a sample fabric 		
M2-LU16 Practice to make cuff & sleeve vent on fabric			Trainee will: <ul style="list-style-type: none"> • Explain how to make cuff & sleeve vent on fabric • Demonstrate how to make cuff & sleeve vent on fabric 		
M2-LU17 Practice to make collar on fabric. Exercises			Trainee will: <ul style="list-style-type: none"> • Demonstrate how to make collar on a sample fabric 		

Module 3 Title: Over lock Machine

Objective of the Module: To operate Over lock Machine to stitch a garment

Duration: 105 hours. **Theory:** 20 hours **Practice:**85 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M3-LU1 Introduction to over lock machine	20 hours	85 hours.	Trainee will: <ul style="list-style-type: none"> Name & Explain the machine's parts. Demonstrate the machine's parts. 	<ul style="list-style-type: none"> Oral Practical/Demonstrate(time to perform some specific operation & quality will be graded) MCQs Short questions 	At the end of module
M3-LU2 Operator sitting posture.			Trainee: <ul style="list-style-type: none"> Sitting Posture will be observed and graded. Will explain effect of recommended posture on efficiency and personal safety simultaneously. 		
M3-LU3 Important parts of machine and their functions			Trainee will: <ul style="list-style-type: none"> Display machine's important parts. Demonstrate & explain the machine's parts specific functions. 		
M3-LU4 Oiling and cleaning of machine			Trainee will: <ul style="list-style-type: none"> Explain the basic purpose of machine's cleaning, oiling. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality 		
M3-LU5 Machine Threading			Trainee will: <ul style="list-style-type: none"> Explain the machine threading Demonstrate the machine threading 		

M3-LU6 Precautions.			Trainee will: <ul style="list-style-type: none"> • Explain the health & safety hazard's precautions • Demonstrate the health & safety hazard's precautions • Demonstrate how to end the work on machine Trainee will be observed that if he is observing health & safety hazard's precautions and his observed precautions will be graded.		
M3-LU7 Care in operation.			Trainee will be observed in: <ul style="list-style-type: none"> • Caring in operation regarding productivity • Caring in operation regarding quality 		
M3-LU8 Needle & thread knowledge.			Trainee will: <ul style="list-style-type: none"> • Demonstrate the needle & thread selection 		
M3-LU9 Needle adjustment			Trainee will: <ul style="list-style-type: none"> • Explain the needle's adjustment process • Explain the possible quality faults due to wrong adjustment • Demonstrate the needles adjustment process 		
M3-LU10 Stitch length adjustment			Trainee will: <ul style="list-style-type: none"> • Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) • Demonstrate how to adjust and fix the stitch length per inch (SPI) 		
M3-LU11 Thread Tension & cutter adjustment			Trainee will: <ul style="list-style-type: none"> • Explain the need and importance of Thread Tension adjustment • Explain the need and importance of cutter 		

			<p>adjustment</p> <ul style="list-style-type: none"> • Demonstrate how to adjust the Thread tension • Demonstrate how to adjust the cutter adjustment 		
M3-LU12 Machine control exercises.			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate the need & technique to control the speed of machine 		
M3-LU13 Fabric shape exercises (Straight, round and curved)			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate how to sew fabric shapes, e.g. Straight, round and curved 		
M3-LU14 Needle & thread breakages fault.			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the causes and effects of needle breakage on fabric & personal safety • Explain the causes of thread breakage • Explain the remedies of thread breakage • Demonstrate the causes and effects of thread breakage on fabric • Demonstrate the hazard of needle breakage to fabric & operator's personal safety <p>TRAINEE'S precautionary measures taken will be observed & graded</p>		
M3-LU15 Over lock stitch variations			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain over lock machine's stitch variations • Demonstrate how to change machine's stitch. 		
M3-LU16 Panel Exercises (Crotch, Arm hole, front and			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate how to perform panel exercises e.g. Crotch, Arm hole, front and back panel edges parallel. 		

back panel, edges parallel.					
PROJECTS 1. Over Lock the project which was stitched on the single needle Lock stitch sewing machine			Trainee will: <ul style="list-style-type: none"> • Complete the stitching projects, project's quality will be graded. 		

Module 4 Title: Button Hole Machine

Objective of the Module: To operate Button Hole Machine to complete a task on garment.

Duration: 37 hours. **Theory:**7 hours **Practice:**30 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M4-LU1 Introduction to button hole machine	07 hours	30 hours.	Trainee will: <ul style="list-style-type: none"> Name & Explain the machine's parts. Demonstrate the machine's parts. 	<ul style="list-style-type: none"> Oral Practical/Demonstrate(time to perform some specific operation & quality will be graded) MCQs Short questions 	At the end of module
M4-LU2 Operator sitting posture.			Trainee: <ul style="list-style-type: none"> Sitting Posture will be observed and graded. Will explain effect of recommended posture on efficiency and personal safety simultaneously. 		
M4-LU3 Important parts of machine and their functions			Trainee will: <ul style="list-style-type: none"> Display machine's important parts. Demonstrate & explain the machine's parts specific functions. 		
M4-LU4 Oiling and cleaning of machine			Trainee will: <ul style="list-style-type: none"> Explain the basic purpose of machine's cleaning, oiling. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality 		
M4-LU5 Machine Threading			Trainee will: <ul style="list-style-type: none"> Explain the machine threading Demonstrate the machine threading 		

<p>M4-LU6 Precautions.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the health & safety hazard's precautions • Demonstrate the health & safety hazard's precautions • Demonstrate how to end the work on machine <p>Trainee will be observed that if he is observing health & safety hazard's precautions and his observed precautions will be graded.</p>		
<p>M4-LU7 Care in operation.</p>			<p>Trainee will be observed in:</p> <ul style="list-style-type: none"> • Caring in operation regarding productivity • Caring in operation regarding quality 		
<p>M4-LU8 Needle & thread knowledge.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate the needle & thread selection 		
<p>M4-LU9 Needle & cutter adjustment</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the needle & cutter adjustment process • Explain the possible quality faults due to wrong adjustment • Demonstrate the needle adjustment process • Demonstrate the cutter adjustment process 		
<p>M4-LU10 Button hole size, proper placement of fabric under presser foot</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the need and importance of selection of cutter according to button size • Explain the placement of fabric under the presser foot • Demonstrate the selection of cutter according to button size • Demonstrate the placement of fabric under the presser foot 		

<p>M4-LU11 Practice of different sizes of button hole</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate how to perform button hole operation 		
<p>M4-LU12 Needle & thread breakages fault.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the causes and effects of needle breakage on fabric & personal safety • Explain the causes of thread breakage • Explain the remedies of thread breakage • Demonstrate the causes and effects of thread breakage on fabric • Demonstrate the hazard of needle breakage to fabric & operator's personal safety <p>TRAINEE'S precautionary measures taken will be observed & graded</p>		

Module 5 Title : Button Stitch/ Button Take Machine

Objective of the Module: To operate Button Stitch Machine to complete a task on garment on this machine

Duration: 37 hours. **Theory:**7 hours **Practice:**30 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M5-LU1 Introduction to button stitch machine	07 hours	30 hours.	Trainee will: <ul style="list-style-type: none"> Name & Explain the machine's parts. Demonstrate the machine's parts. 	<ul style="list-style-type: none"> Oral Practical/Demonstrate(time to perform some specific operation & quality will be graded) MCQs Short questions 	At the end of module
M5-LU2 Operator sitting posture.			Trainee: <ul style="list-style-type: none"> Sitting Posture will be observed and graded. Will explain effect of recommended posture on efficiency and personal safety simultaneously. 		
M5-LU3 Important parts of machine and their functions			Trainee will: <ul style="list-style-type: none"> Display machine's important parts. Demonstrate & explain the machine's parts specific functions. 		
M5-LU4 Oiling and cleaning of machine			Trainee will: <ul style="list-style-type: none"> Explain the basic purpose of machine's cleaning, oiling. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality 		
M5-LU5 Machine Threading			Trainee will: <ul style="list-style-type: none"> Explain the machine threading Demonstrate the machine threading 		

<p>M5-LU6 Precautions.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the health & safety hazard's precautions • Demonstrate the health & safety hazard's precautions • Demonstrate how to end the work on machine <p>Trainee will be observed that if he is observing health & safety hazard's precautions and his observed precautions will be graded.</p>		
<p>M5-LU7 Care in operation.</p>			<p>Trainee will be observed in:</p> <ul style="list-style-type: none"> • Caring in operation regarding productivity • Caring in operation regarding quality 		
<p>M5-LU8 Needle & thread knowledge.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate the needle & thread selection 		
<p>M5-LU9 Needle & thread breakages fault.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the causes and effects of needle breakage on fabric & personal safety • Explain the causes of thread breakage • Explain the remedies of thread breakage • Demonstrate the causes and effects of thread breakage on fabric • Demonstrate the hazard of needle breakage to fabric & operator's personal safety <p>TRAINEE'S precautionary measures taken will be observed & graded</p>		
<p>M5-LU10 Needle adjustment</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the needle adjustment process • Explain the possible quality faults due to wrong adjustment • Demonstrate the needles adjustment process 		

M5-LU11 Stitch length adjustment			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) • Demonstrate how to adjust and fix the stitch length per inch (SPI) 		
M5-LU12 Adjustment of thread tension			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the Adjustment of thread tension • Demonstrate the Adjustment of thread tension • Explain & demonstrate the possible quality faults due to wrong adjustment. 		
M5-LU13 Pattern formation			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the pattern formation process • Demonstrate how to make pattern for button stitch machine 		
M5-LU14 Button marking with the help of pattern			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate how to mark button using pattern. 		
M5-LU15 Adjustment of button on machine			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate how to load the button into the machine 		
M5-LU16 Placement of fabric under presser foot			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate how to place the fabric under the foot properly according the marking 		
M5-LU17 Attach different sizes of button on fabric			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate how to attach button on the mark fixed for button to proper hole 		

Module 6 Title: Flat Lock Machine

Objective of the Module: To operate Flat Lock Machine to stitch a garment

Duration: 57 hours. **Theory:**07 hours **Practice:**50 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M6-LU1 Introduction to flat lock machine	07 hours	50 hours	Trainee will: <ul style="list-style-type: none"> Name & Explain the machine's parts. Demonstrate the machine's parts. 	<ul style="list-style-type: none"> Oral Practical/Demonstrate(time to perform some specific operation & quality will be graded) MCQs Short questions 	At the end of module
M6-LU2 Operator sitting posture.			Trainee: <ul style="list-style-type: none"> Sitting Posture will be observed and graded. Will explain effect of recommended posture on efficiency and personal safety simultaneously. 		
M6-LU3 Important parts of machine and their functions			Trainee will: <ul style="list-style-type: none"> Display machine's important parts. Demonstrate & explain the machine's parts specific functions. 		
M6-LU4 Oiling and cleaning of machine			Trainee will: <ul style="list-style-type: none"> Explain the basic purpose of machine's cleaning, oiling. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality 		
M6-LU5 Machine Threading			Trainee will: <ul style="list-style-type: none"> Explain the machine threading Demonstrate the machine threading 		

<p>M6-LU6 Precautions.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the health & safety hazard's precautions • Demonstrate the health & safety hazard's precautions • Demonstrate how to end the work on machine <p>Trainee will be observed that if he is observing health & safety hazard's precautions and his observed precautions will be graded.</p>		
<p>M6-LU7 Care in operation.</p>			<p>Trainee will be observed in:</p> <ul style="list-style-type: none"> • Caring in operation regarding productivity • Caring in operation regarding quality 		
<p>M6-LU8 Needle & thread knowledge.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate the needle & thread selection 		
<p>M6-LU9 Needle & thread breakages fault.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the causes and effects of needle breakage on fabric & personal safety • Explain the causes of thread breakage • Explain the remedies of thread breakage • Demonstrate the causes and effects of thread breakage on fabric • Demonstrate the hazard of needle breakage to fabric & operator's personal safety <p>TRAINEE'S precautionary measures taken will be observed & graded</p>		
<p>M6-LU10 Needle adjustment</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the needle adjustment process • Explain the possible quality faults due to wrong adjustment • Demonstrate the needles adjustment process 		

M6-LU11 Stitch length adjustment			Trainee will: <ul style="list-style-type: none"> • Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) • Demonstrate how to adjust and fix the stitch length per inch (SPI) 		
M6-LU12 Adjustment of thread tension			Trainee will: <ul style="list-style-type: none"> • Explain the Adjustment of thread tension • Demonstrate the Adjustment of thread tension • Explain & demonstrate the possible quality faults due to wrong adjustment. 		
M6-LU13 Machine Control exercise			Trainee will: <ul style="list-style-type: none"> • Explain the need to control the speed of machine • Demonstrate the technique how to control the speed of machine 		
M6-LU14 Panel Exercises (top stitch & sleeve hem.			Trainee will: <ul style="list-style-type: none"> • Demonstrate how to perform panel exercises e.g. Top stitch & sleeve hem. 		

Module 7 Title: Feed of Arm Machine

Objective of the Module: To operate Feed of Arm Machine to stitch a garment

Duration: 37 hours. **Theory:**07 hours **Practice:**30 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M7-LU1 Introduction to feed of arm machine	07 hours	30 hours.	Trainee will: <ul style="list-style-type: none"> Name & Explain the machine's parts. Demonstrate the machine's parts. 	<ul style="list-style-type: none"> Oral Practical/Demonstrate(time to perform some specific operation & quality will be graded) MCQs Short questions 	At the end of module
M7-LU2 Operator sitting posture.			Trainee: <ul style="list-style-type: none"> Sitting Posture will be observed and graded. Will explain effect of recommended posture on efficiency and personal safety simultaneously. 		
M7-LU3 Important parts of machine and their functions			Trainee will: <ul style="list-style-type: none"> Display machine's important parts. Demonstrate & explain the machine's parts specific functions. 		
M7-LU4 Oiling and cleaning of machine			Trainee will: <ul style="list-style-type: none"> Explain the basic purpose of machine's cleaning, oiling. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality 		
M7-LU5 Machine Threading			Trainee will: <ul style="list-style-type: none"> Explain the machine threading Demonstrate the machine threading 		

<p>M7-LU6 Precautions.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the health & safety hazard's precautions • Demonstrate the health & safety hazard's precautions • Demonstrate how to end the work on machine <p>Trainee will be observed that if he is observing health & safety hazard's precautions and his observed precautions will be graded.</p>		
<p>M7-LU7 Care in operation.</p>			<p>Trainee will be observed in:</p> <ul style="list-style-type: none"> • Caring in operation regarding productivity • Caring in operation regarding quality 		
<p>M7-LU8 Needle & thread knowledge.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate the needle & thread selection 		
<p>M7-LU9 Needle & thread breakages fault.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the causes and effects of needle breakage on fabric & personal safety • Explain the causes of thread breakage • Explain the remedies of thread breakage • Demonstrate the causes and effects of thread breakage on fabric • Demonstrate the hazard of needle breakage to fabric & operator's personal safety <p>TRAINEE'S precautionary measures taken will be observed & graded</p>		
<p>M7-LU10 Needle adjustment</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the needle adjustment process • Explain the possible quality faults due to wrong adjustment • Demonstrate the needles adjustment process 		

M7-LU11 Folder Attachment			Trainee will: <ul style="list-style-type: none"> • Explain the Folder Attachment process • Explain the possible quality faults due to wrong adjustment • Demonstrate the Folder Attachment process 		
M7-LU12 Stitch length adjustment			Trainee will: <ul style="list-style-type: none"> • Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) • Demonstrate how to adjust and fix the stitch length per inch (SPI) 		
M7-LU13 Adjustment of thread tension			Trainee will: <ul style="list-style-type: none"> • Explain the Adjustment of thread tension • Demonstrate the Adjustment of thread tension 		
M7-LU14 Machine Control exercise			Trainee will: <ul style="list-style-type: none"> • Explain the need to control the speed of machine • Demonstrate the technique how to control the speed of machine 		
M7-LU15 Panel Exercises (top stitch & sleeve hem.			Trainee will: <ul style="list-style-type: none"> • Demonstrate how to perform panel exercises e.g. Top stitch & sleeve hem. 		

Module 8 Title: Twin Needle Lock Stitch Machine

Objective of the Module: To operate Twin needle Lock Stitch Machine to stitch a garment

Duration: 47 hours. **Theory:**07 hours **Practice:**40 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M8-LU1 Introduction to twin needle lock Stitch machine	07 hours	40 hours.	Trainee will: <ul style="list-style-type: none"> Name & Explain the machine's parts. Demonstrate the machine's parts. 	<ul style="list-style-type: none"> Oral Practical/Demonstrate(time to perform some specific operation & quality will be graded) MCQs Short questions 	At the end of module
M8-LU2 Operator sitting posture.			Trainee: <ul style="list-style-type: none"> Sitting Posture will be observed and graded. Will explain effect of recommended posture on efficiency and personal safety simultaneously. 		
M8-LU3 Important parts of machine and their functions			Trainee will: <ul style="list-style-type: none"> Display machine's important parts. Demonstrate & explain the machine's parts specific functions. 		
M8-LU4 Oiling and cleaning of machine			Trainee will: <ul style="list-style-type: none"> Explain the basic purpose of machine's cleaning, oiling. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality 		
M8-LU5 Machine Threading			Trainee will: <ul style="list-style-type: none"> Explain the machine threading Demonstrate the machine threading 		

<p>M8-LU6 Precautions.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the health & safety hazard's precautions • Demonstrate the health & safety hazard's precautions • Demonstrate how to end the work on machine <p>Trainee will be observed that if he is observing health & safety hazard's precautions and his observed precautions will be graded.</p>		
<p>M8-LU7 Care in operation.</p>			<p>Trainee will be observed in:</p> <ul style="list-style-type: none"> • Caring in operation regarding productivity • Caring in operation regarding quality 		
<p>M8-LU8 Needle & thread knowledge.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate the needle & thread selection 		
<p>M8-LU9 Needle & thread breakages fault.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the causes and effects of needle breakage on fabric & personal safety • Explain the causes of thread breakage • Explain the remedies of thread breakage • Demonstrate the causes and effects of thread breakage on fabric • Demonstrate the hazard of needle breakage to fabric & operator's personal safety <p>TRAINEE'S precautionary measures taken will be observed & graded</p>		
<p>M8-LU10 Needle adjustment</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the needle adjustment process • Explain the possible quality faults due to wrong adjustment 		

			<ul style="list-style-type: none"> • Demonstrate the needles adjustment process 		
M8-LU11 Stitch length adjustment			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) • Demonstrate how to adjust and fix the stitch length per inch (SPI) 		
M8-LU12 Adjustment of thread tension			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the Adjustment of thread tension • Demonstrate the Adjustment of thread tension 		
M8-LU13 Machine Control exercise			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the need to control the speed of machine • Demonstrate the technique how to control the speed of machine 		
M8-LU14 Panel Exercises (top stitch & sleeve hem.			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate how to perform panel exercises e.g. Top stitch & sleeve hem. 		

Module 9 Title: Bartak Machine

Objective of the Module: To operate Bartak Machine to complete a task on garment.

Duration: 37 hours. **Theory:** 7 hours **Practice:** 30 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M9-LU1 Introduction to Bar Tack machine	07 hours	30 hours.	Trainee will: <ul style="list-style-type: none"> Name & Explain the machine's parts. Demonstrate the machine's parts. 	<ul style="list-style-type: none"> Oral Practical/Demonstrate(time to perform some specific operation & quality will be graded) MCQs Short questions 	At the end of module
M9-LU2 Operator sitting posture.			Trainee: <ul style="list-style-type: none"> Sitting Posture will be observed and graded. Will explain effect of recommended posture on efficiency and personal safety simultaneously. 		
M9-LU3 Important parts of machine and their functions			Trainee will: <ul style="list-style-type: none"> Display machine's important parts. Demonstrate & explain the machine's parts specific functions. 		
M9-LU4 Oiling and cleaning of machine			Trainee will: <ul style="list-style-type: none"> Explain the basic purpose of machine's cleaning, oiling. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality 		
M9-LU5 Machine Threading			Trainee will: <ul style="list-style-type: none"> Explain the machine threading Demonstrate the machine threading 		

M9-LU6 Precautions.			Trainee will: <ul style="list-style-type: none"> • Explain the health & safety hazard's precautions • Demonstrate the health & safety hazard's precautions • Demonstrate how to end the work on machine Trainee will be observed that if he is observing health & safety hazard's precautions and his observed precautions will be graded.		
M9-LU7 Care in operation.			Trainee will be observed in: <ul style="list-style-type: none"> • Caring in operation regarding productivity • Caring in operation regarding quality 		
M9-LU8 Needle & thread knowledge.			Trainee will: <ul style="list-style-type: none"> • Demonstrate the needle & thread selection 		
M9-LU9 Needle & thread breakages fault.			Trainee will: <ul style="list-style-type: none"> • Explain the causes and effects of needle breakage on fabric & personal safety • Explain the causes of thread breakage • Explain the remedies of thread breakage • Demonstrate the causes and effects of thread breakage on fabric • Demonstrate the hazard of needle breakage to fabric & operator's personal safety TRAINEE'S precautionary measures taken will be observed & graded		
M9-LU10 Needle adjustment			Trainee will: <ul style="list-style-type: none"> • Explain the needle adjustment process • Explain the possible quality faults due to wrong adjustment • Demonstrate the needles adjustment process 		

M9-LU11 Stitch length adjustment			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) • Demonstrate how to adjust and fix the stitch length per inch (SPI) 		
M9-LU12 Adjustment of thread tension			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the Adjustment of thread tension • Demonstrate the Adjustment of thread tension 		
M9-LU13 Machine Control exercise			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the need to control the speed of machine • Demonstrate the technique how to control the speed of machine 		

Module 10 Title: Loop Making Machine

Objective of the Module: To operate Loop Making Machine to complete a task on garment.

Duration: 37 hours. **Theory:** 7 hours **Practice:** 30 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M10-LU1 Introduction to Loop Making Machine	07 hours	30 hours	Trainee will: <ul style="list-style-type: none"> Name & Explain the machine's parts. Demonstrate the machine's parts. 	<ul style="list-style-type: none"> Oral Practical/Demonstrate(time to perform some specific operation & quality will be graded) MCQs Short questions 	At the end of module
M10-LU2 Operator sitting posture.			Trainee: <ul style="list-style-type: none"> Sitting Posture will be observed and graded. Will explain effect of recommended posture on efficiency and personal safety simultaneously. 		
M10-LU3 Important parts of machine and their functions			Trainee will: <ul style="list-style-type: none"> Display machine's important parts. Demonstrate & explain the machine's parts specific functions. 		
M10-LU4 Oiling and cleaning of machine			Trainee will: <ul style="list-style-type: none"> Explain the basic purpose of machine's cleaning, oiling. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality 		
M10-LU5 Machine Threading			Trainee will: <ul style="list-style-type: none"> Explain the machine threading Demonstrate the machine threading 		

<p>M10-LU6 Precautions.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the health & safety hazard's precautions • Demonstrate the health & safety hazard's precautions • Demonstrate how to end the work on machine <p>Trainee will be observed that if he is observing health & safety hazard's precautions and his observed precautions will be graded.</p>		
<p>M10-LU7 Care in operation.</p>			<p>Trainee will be observed in:</p> <ul style="list-style-type: none"> • Caring in operation regarding productivity • Caring in operation regarding quality 		
<p>M10-LU8 Needle & thread knowledge.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate the needle & thread selection 		
<p>M10-LU9 Needle & thread breakages fault.</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the causes and effects of needle breakage on fabric & personal safety • Explain the causes of thread breakage • Explain the remedies of thread breakage • Demonstrate the causes and effects of thread breakage on fabric • Demonstrate the hazard of needle breakage to fabric & operator's personal safety <p>TRAINEE'S precautionary measures taken will be observed & graded</p>		
<p>M10-LU10 Needle adjustment</p>			<p>Trainee will:</p> <ul style="list-style-type: none"> • Explain the needle adjustment process • Explain the possible quality faults due to wrong adjustment • Demonstrate the needles adjustment process 		

M10-LU11 Folder Attachment			Trainee will: <ul style="list-style-type: none"> • Explain the Folder Attachment process • Explain the possible quality faults due to wrong adjustment • Demonstrate the Folder Attachment process 		
M10-LU12 Stitch length adjustment			Trainee will: <ul style="list-style-type: none"> • Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) • Demonstrate how to adjust and fix the stitch length per inch (SPI) 		
M10-LU13 Adjustment of thread tension			Trainee will: <ul style="list-style-type: none"> • Explain the Adjustment of thread tension • Demonstrate the Adjustment of thread tension 		
M10-LU14 Machine Control exercise			Trainee will: <ul style="list-style-type: none"> • Explain the need to control the speed of machine • Demonstrate the technique how to control the speed of machine 		

Module 11 Title : Elastic Attaching Machine

Objective of the Module: To operate Loop Making Machine to complete a task on garment.

Duration: 37 hours. **Theory:** 7 hours **Practice:** 30 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M11-LU1 Introduction to Elastic Attaching Machine			Trainee will: <ul style="list-style-type: none"> Name & Explain the machine's parts. Demonstrate the machine's parts. 	<ul style="list-style-type: none"> Oral Practical/Demonstrate(time to perform some specific operation & quality will be graded) MCQs Short questions 	At the end of module
M11-LU2 Operator sitting posture.			Trainee: <ul style="list-style-type: none"> Sitting Posture will be observed and graded. Will explain effect of recommended posture on efficiency and personal safety simultaneously. 		
M11-LU3 Important parts of machine and their functions			Trainee will: <ul style="list-style-type: none"> Display machine's important parts. Demonstrate & explain the machine's parts specific functions. 		
M11-LU4 Oiling and cleaning of machine			Trainee will: <ul style="list-style-type: none"> Explain the basic purpose of machine's cleaning, oiling. Demonstrate the effect of machine's cleaning, oiling and basic maintenance (precautions) on productivity & quality 		
M11-LU5 Machine Threading			Trainee will: <ul style="list-style-type: none"> Explain the machine threading Demonstrate the machine threading 		

M11-LU6 Precautions.			Trainee will: <ul style="list-style-type: none"> • Explain the health & safety hazard's precautions • Demonstrate the health & safety hazard's precautions • Demonstrate how to end the work on machine Trainee will be observed that if he is observing health & safety hazard's precautions and his observed precautions will be graded.		
M11-LU7 Care in operation.			Trainee will be observed in: <ul style="list-style-type: none"> • Caring in operation regarding productivity • Caring in operation regarding quality 		
M11-LU8 Needle & thread knowledge.			Trainee will: <ul style="list-style-type: none"> • Demonstrate the needle & thread selection 		
M11-LU9 Needle & thread breakages fault.			Trainee will: <ul style="list-style-type: none"> • Explain the causes and effects of needle breakage on fabric & personal safety • Explain the causes of thread breakage • Explain the remedies of thread breakage • Demonstrate the causes and effects of thread breakage on fabric • Demonstrate the hazard of needle breakage to fabric & operator's personal safety TRAINEE'S precautionary measures taken will be observed & graded		
M11-LU10 Needle adjustment			Trainee will: <ul style="list-style-type: none"> • Explain the needle adjustment process • Explain the possible quality faults due to wrong adjustment • Demonstrate the needles adjustment process 		

M11-LU11 Elastic Roll Adjustment			Trainee will: <ul style="list-style-type: none"> • Explain selection of elastic size according to belt size • Explain the possible quality faults due to wrong selection • Demonstrate how to adjust the elastic roll 		
M11-LU12 Stitch length adjustment			Trainee will: <ul style="list-style-type: none"> • Explain the need and importance of adjusting and fixing the stitch length per inch (SPI) • Demonstrate how to adjust and fix the stitch length per inch (SPI) 		
M11-LU13 Adjustment of thread tension			Trainee will: <ul style="list-style-type: none"> • Explain the Adjustment of thread tension • Demonstrate the Adjustment of thread tension 		
M11-LU14 Machine Control exercise			Trainee will: <ul style="list-style-type: none"> • Explain the need to control the speed of machine • Demonstrate the technique how to control the speed of machine 		

Module 12 Title: Maintenance assurance

Objective of the Module: To understand the importance of maintenance, maintenance assurance, oiling, cleaning and rectifying troubleshooting.

Duration: 30 hours. **Theory:**10 hours **Practice:**20 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M12-LU1 Periodic & preventive maintenance of machine	10 hours	20 hours	Trainee will: <ul style="list-style-type: none"> • Explain periodic & preventive maintenance's purpose • Explain how the operator is responsible, (e.g. like any car's driver) for the assurance of the maintenance of the machines. • Explain how the operator is responsible, (e.g. like any car's driver) for update the maintenance log book of the machines. • Demonstrate Oiling & Greasing process 	<ul style="list-style-type: none"> • Oral • Practical/Demonstrate(time to perform some specific operation & quality will be graded) • MCQs • Short questions 	At the end of module
M12-LU2 Periodic oiling of machine			Trainee will: <ul style="list-style-type: none"> • Explain the oil & grease types • Explain oiling purpose • Explain the oil & grease recommended/selected for the machine • Demonstrate the oiling points and oil change of the machine • Demonstrate Oiling & Greasing process 		
M12-LU3 Periodic cleaning of machine			Trainee will: <ul style="list-style-type: none"> • Demonstrate the cleaning points/parts of the machines • Demonstrate cleaning purpose 		
M12-LU4 Troubleshooting handling			Trainee will: <ul style="list-style-type: none"> • Demonstrate the possible trouble shooting points • Demonstrate the possible breakdowns in the machines 		

Module13 Title:Garments Defects& Its Corrections

Objective of the Module: To find all types of garments faults

Duration: 24 hours. **Theory:**04 hours **Practice:**20 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M13-LU1 Sewing Faults. (Broken and skip stitches).	04 hours	20 hours	Trainee will: <ul style="list-style-type: none"> • Display all types of sewing faults. • Demonstrate how to identify & how to remove the faults of sewing. 	<ul style="list-style-type: none"> • Oral • Practical/Demonstrate(time to perform some specific operation & quality will be graded) • MCQs • Short questions 	At the end of module
M13-LU2 Washing faults.			Trainee will: <ul style="list-style-type: none"> • Display all types of washing faults. • Demonstrate how to identify & how to remove the faults of Washing. • Sort out OK garments 		
M13-LU3 Stains.			Trainee will: <ul style="list-style-type: none"> • Display all types of stains. • Demonstrate how to identify & how to remove the all types of stains • Sort out OK garments 		
M13-LU4 Fluff.			Trainee will: <ul style="list-style-type: none"> • Display the fabric with fluff present on it. • Demonstrate how to identify & how to remove the fluff form the garments. • Sort out OK garments 		
M13-LU5 Knitting lines.			Trainee will: <ul style="list-style-type: none"> • Display the fabric with knitting lines & weaving faults present on it. • Demonstrate how to identify & handle knitting 		

			lines or weaving faults on garments.		
M13-LU6 Pressing faults.			<p>Trainee will:</p> <ul style="list-style-type: none"> • Display all the pressing faults. • Demonstrate how to identify & remove or handle the pressing faults. 		
M13-LU7 Clipping.			<p>Trainee will</p> <ul style="list-style-type: none"> • Demonstrate how to clip the garments 		
M13-LU8 Trims			<p>Trainee will:</p> <ul style="list-style-type: none"> • Demonstrate how to trim the extra threads on garments 		

Module 14 Title: Garments Inspection & Grading

Objective of the Module: To perform Clock wise inspection of the garment

Duration: 24 hours. **Theory:**04 hours **Practice:**20 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M14-LU1 Method for inspection of the following i.e. 1 T-shirt 2. Polo shirt 3. Trouser 4.Denim pant 5. Measurements 6.Stitching faults 7.color faults 8.stains	04 hours	20 hours	Trainee will: <ul style="list-style-type: none">• Demonstrate how to inspect clock wise and grading the following garments: 1 T-shirt 2. Polo shirt 3. Trouser 4.Denim pant 5. Measurements 6.Stitching faults• Demonstrate how to measure garments of different styles.	<ul style="list-style-type: none">• Oral• Practical/Demonstrate(time to perform some specific operation & quality will be graded)• MCQs• Short questions	At the end of module

Module 15 Title: Pressing (Ironing) the Garments

Objective of the Module: To iron to remove creases, check faults & remove them from the Garments to improve quality & Sorting the garments.

Duration: 27 hours. **Theory:**02 hours **Practice:**25 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M15-LU1 Pressing (Ironing) the following garments: 1. T-shirt 2. Polo shirt 3. Trouser 4. Denim pant	02 hours	25 hours	Trainee will: <ul style="list-style-type: none">• Demonstrate how to spread the garment for pressing• Demonstrate how to use the Vacuum pressing table• Demonstrate how to adjust Iron's thermostat with respect to the material of the garments.• Demonstrate how to adjust the steam with respect to the material of the garments• Demonstrate how to remove Creases• Demonstrate how to fold the garments during pressing	<ul style="list-style-type: none">• Oral• Practical/Demonstrate (time to perform some specific operation & quality will be graded)• MCQs• Short questions	At the end of module

Module 16 Title: Flow Making for Garments

Objective of the Module: To understand Garments inspection flow

Duration: 24 hours. **Theory:**4 hours **Practice:**20 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M16-LU1 Flow Making for Garments of the following: 1. T-shirt 2. Polo shirt 3. Trouser 4. Denim pant	4 hours	20 hours	Trainee will: <ul style="list-style-type: none">• Explain the garments stitching flow (sequence) of each of the garments 1 T-shirt 2. Polo shirt 3. Trouser 4. Denim pant	<ul style="list-style-type: none">• Oral• Practical/Demonstrate (time to perform some specific operation & quality will be graded)• MCQs• Short questions	At the end of module

Module 17 Title: Health, safety, and basic first aid

Objective of the Module: To take health & safety measures and master to perform basic first aid

Duration: 35 hours. **Theory:**15 hours **Practice:**20 hours.

Learning Unit	Theory Days/hours	Workplace Days/hours	Recommended Formative Assessment	Recommended Methodology	Scheduled Dates
M17-LU1 Introduction to importance of operator's health & safety (health & safety care)	15 hours	20 hours	Trainee will: <ul style="list-style-type: none"> • Demonstrate the possible personal hazard points • Demonstrate the precautionary measures for the prevention of injury/medical emergency • Name & Demonstrate how and when to use items in the first aid box 	<ul style="list-style-type: none"> • Oral • Practical/Demonstrate(time to perform some specific operation & quality will be graded) • MCQs • Short questions 	At the end of the course.
M17-LU2 Introduction to importance of basic first aid					
Projects: Trainee will stitch:	T-shirt. Polo shirt Trouser with belt Trouser with Elastic Denim Pant			<ul style="list-style-type: none"> • Trainee's time to stitch and its quality will be assessed 	

List of Machinery / Equipment / Tools

(For a Class of 25 Students)

NAME OF TRADE	Industrial Stitching Machine operator
Duration of Course	6-Months

Sr. No	Nomenclature of equipment / Tools	Quantity
1.	Single Needle Lock Stitch Machine	25
2.	Over Lock Machine <ul style="list-style-type: none">• 4 Thread = 6• 5 Thread (Safety) = 2	08
3.	Button Hole Machine	02
4.	Button Stitch Machine	02
5.	Flat Lock Machine	04

6.	Bar Tack Machine	01
7.	Feed of Arm Machine	01
8.	Elastic Attaching Machine	01
9.	Stain Removing Gun	06
10.	Stain Removing Machine	01
11.	Steam Iron	04
12.	Fire Extinguish all types	02 sets each
13.	Air Compressor	01
14.	Multimedia Projector with all accessories	01

List of Consumable Materials

(For a Class of 25 Students)

Sr. No.	Name of material/items	Quantity/student	For 25 students
1.	Cotton Fabric	10 meters	250 meters
2.	Knit wear/hosiery Fabric	5kg.	125 KG
3.	Denim	5 meters	125 meters
4.	Woven fabric	5 meters	125 meters
5.	Threads-different types	5 spools	125 spools
6.	Needles-different types of machines	10 Packets different types of machine	250 packets different types of machine
7.	Sewing Paper for exercise	1 book	25 books
8.	Buttons	2 hole 1 dozen 2 hole 1 dozen	25 dozen 25 dozen
9.	Sewing machine Oil	2 Liters	50 Liters
10.	Cleaning cloth	1 Kg Fllalan	25 Kg Fllalan
12.	Board Markers	-----	1 packet
13.	Dusters	-----	1 piece
14.	Board Markers ink	-----	1 bottle
15.	First Aid Box	-----	01 box
16.	Velcro	-----	2 rolls
17.	Tailoring chalk	-----	03 boxes
18.	Detergents	-----	5 kg
19.	Kerosene	-----	5 liters
20.	Cleaning brush	-----	10 pieces
21.	Petrol	-----	10 liters
22.	Multi-purpose grease	-----	5 kg.

Reference Books

- Machine Operating and Maintenance Manuals

Qualifications of Teachers / Instructors

3-Years Diploma (D.D.M) 2- Year Industrial cum Teaching Experience.

OR

2- Years Certificate 3- Years Industrial cum Teaching Experience.

(Dress Designing/ Making) With 6 month Certificate in

Industrial Stitching Machine Operator Course.

OR

2- Years Diploma 3- Years Industrial cum Teaching Experience.

(Vocational Women) With 6- Months Certificate In

Industrial Stitching Machine Operator Course.

OR

B.Sc. Textile Engineering (Garments) 2- Year Industrial cum Teaching Experience.

OR

M.Sc. Textile Engineering No Experience required

National Curriculum Review Committee Members

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| 1. Engr. Ahmad Ali Rana
M. Phil. (M.Sc.) Textile Engineering
B.E. Textile Engineering
(Experience: 05 years, Leading Textile industry's Manager+
09 years teaching & Curriculum Development)
Asstt. Professor Textile, GCT, Multan. | Convener |
| 2. Mr. Jawad Ali Hashmi,
DAE (Textile), LLB, MBA (Marketing & Finance)
Instructor Textile, GCT, Multan. | Member |
| 3. Dr. Abdul Farhan Khan
Technical Manager, AVM Chemical Industries, Karachi. | Member |
| 4. Ms. Faiza Maqsood Khan
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| 8. Ms. Maria Bilal
Managing Director, Khannums, Sunder Estate Lahore. | Member |
| 9. Miss Feroza Jabeen
Lecturer Garments, GCT (Girls) Karim Abad, Karachi. | Member |
| 10. Mr. Haroon Shafqat
Asstt. Professor, Textile, GCT, SITE, Karachi. | Member |
| 11. Ms. Hina Fouzia
Deputy Manager (Curriculum) TEVTA Secretariat, Lahore. | Member |